TOSHIBA BIPOLAR LINEAR INTEGRATED CIRCUIT SILICON MONOLITHIC

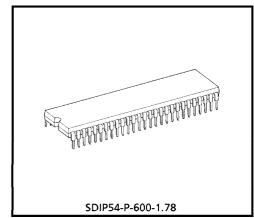
# **TA8851BN, TA8851CN**

### AUDIO / VIDEO SWITCH IC FOR TV WITH S-TERMINALS

The TA8851BN/CN is an A/V SWITCH IC, which has 7 input channels and 2 output channels. Because the 2 output channels can be switched independently of each other, the TA8851BN/CN allows you to configure a PIP system input switching circuit easily.

The TA8851BN/CN can be interfaced easily to a microcontroller via the I<sup>2</sup>C bus.

3 of 7 input channels can be used for Y/C separated input.



Weight : 1.0g (Typ.)

#### **FEATURES**

#### Video Stage

•	Input	
	Composite video input	: 7 channels
	Y/C input	: 3 channels

•	Output			
	Composite video output	:	2 channels	(Main and Sub)
	Y/C output	:	2 channels	(Main and Sub)

#### Audio Stage

- Input
  - L/R input : 7 channels
- Output
  - L/R output
- : 3 channels (2 of 3 depend on video, and the other is selectable from Main or Sub)

#### **Functions**

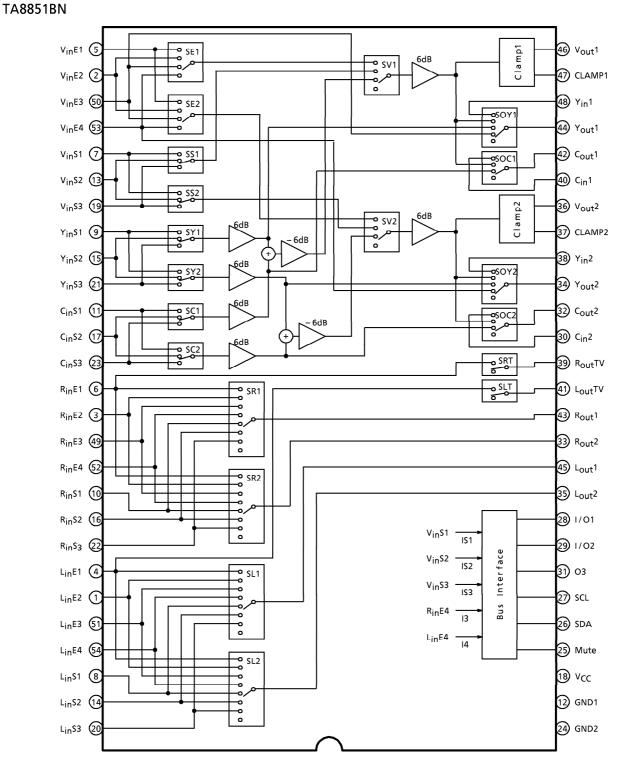
- I<sup>2</sup>C bus interface
- External mute circuit
- DAC output (3 outputs)
- Video clamp circuit
- Mode output
- ADC input (4 inputs)

#### 980910EBA2

- TOSHIBA is continually working to improve the quality and the reliability of its products. Nevertheless, semiconductor devices in general can malfunction or fail due to their inherent electrical sensitivity and vulnerability to physical stress. It is the responsibility of the buyer, when utilizing TOSHIBA products, to observe standards of safety, and to avoid situations in which a malfunction or failure of a TOSHIBA product cause loss of human life, bodily injury or damage to property. In developing your designs, please ensure that TOSHIBA products are used within specified operating ranges as set forth in the most recent products specifications. Also, please keep in mind the precautions and conditions set forth in the TOSHIBA Semiconductor Reliability Handbook.
  The products described in this document are subject to the foreign exchange and foreign trade laws.
  The information contained herein is presented only as a guide for the applications of our products. No responsibility is assumed by TOSHIBA CORPORATION for any infringements of intellectual property or other rights of to their parties which may result from its use. No license is granted by implication or otherwise under any intellectual property or other rights of TOSHIBA CORPORATION or others.
  The information contained herein is subject to change without notice.

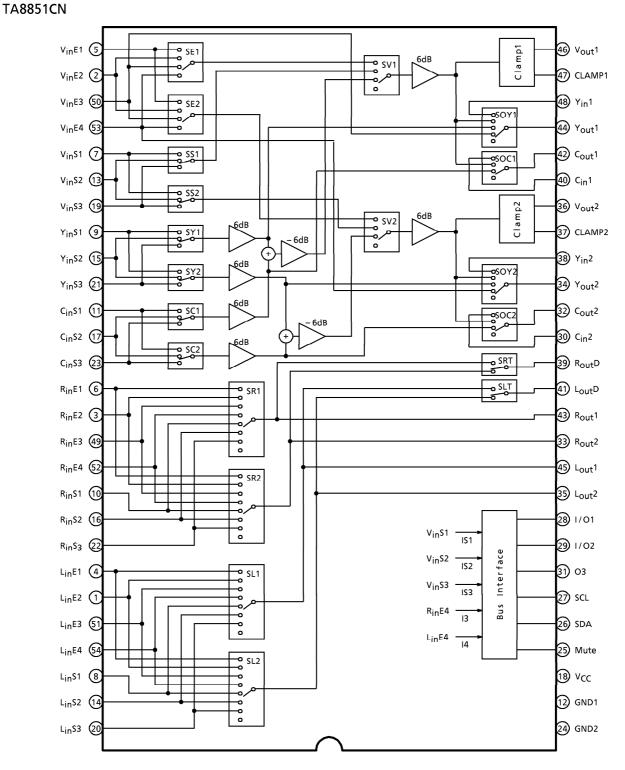
## <u>TOSHIBA</u>

**BLOCK DIAGRAM** 

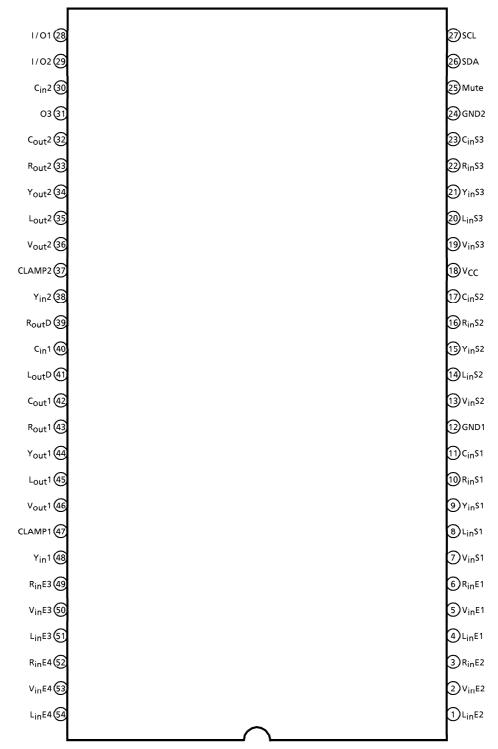


### <u>TOSHIBA</u>

**BLOCK DIAGRAM** 



#### TERMINAL CONNECTION DIAGRAM



#### **TERMINAL FUNCTION**

PIN No.	PIN NAME	FUNCTION	INTERFACE CIRCUIT
2 : V <sub>in</sub> E2 5 : V <sub>in</sub> E1	Composite Video Signal Input	These pins are for composite video signal input. The recommendable input level is 1.0V <sub>p-p</sub> .	$2 \xrightarrow{500}{500}$
50 : V <sub>in</sub> E3 53 : V <sub>in</sub> E4	Composite Video Signal / Y Signal Input	These pins can be used for composite video signal or Y signal input. The recommendable input level is 1.0V <sub>p-p</sub> .	C 2mA 0.2mA 0.2mA 0.2mA V Switching
7 : V <sub>in</sub> S1 13 : V <sub>in</sub> S2 19 : V <sub>in</sub> S3	Composite Video Signal Input and S-Mode Switch	These pins are for composite video signal input and S mode Switch. By setting DC voltage of one of these pins lower than 2.6V, that channel (S1, S2 or S3) turns to S-mode. And when it is higher than 2.6V, that pin is for composite video input. The recommendable input level is 1.0V <sub>p-p</sub> .	$ \begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} \end{array}{0}\\ \end{array}{0}\\ \end{array}{0}\\ \end{array}{0}\\ \end{array}{0}\\ \end{array} $

PIN No.	PIN NAME	FUNCTION	INTERFACE CIRCUIT
9 : Y <sub>in</sub> S1 15 : Y <sub>in</sub> S2 21 : Y <sub>in</sub> S3 11 : C <sub>in</sub> S1 17 : C <sub>in</sub> S2 23 : C <sub>in</sub> S3	Y Signal Input/ C Signal Input	These pins accept a Y signal from the S- terminal and a C signal as input. The recommended input signal level is $1.0V_{p-p}$ for Y signal and $300mV_{p-p}$ for C signal (burst).	$\begin{array}{c} 9 \\ 15 \\ 21 \\ 11 \\ 17 \\ 23 \end{array} \xrightarrow{50\Omega} 1.5k\Omega \\ \bigcirc \\ 0 \\ 1.5k\Omega \\ \bigcirc \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0$
4 : L <sub>in</sub> E1 6 : R <sub>in</sub> E1	Audio Input (TV)	These pins accept the sound of the internal TV signal as input. The signal input to this pin is output from the main/sub output after being selected, as well as from the TV audio output terminal. The recommended input signal level is 300mV <sub>rms</sub> .	4 6 1.5kΩ 4 6 1.5kΩ 4 6 1.5kΩ 4 6 1.5kΩ 4 6 1.5kΩ 4 6 1.5kΩ 4 6 1.5kΩ 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
52 : R <sub>in</sub> E4 54 : L <sub>in</sub> E4	Audio Input/ ADC Input	These pins accept an audio signal as input. They also accept input from a 1bit ADC. In this case, if the voltage on these pins is below 2.3V the ADC outputs I <sub>3</sub> and I <sub>4</sub> become logic is. The recommended input signal level is 300mV <sub>rms</sub> .	$\begin{array}{c} & & & \\ & & & & \\ & & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & &$
8 : L <sub>in</sub> S1 10 : R <sub>in</sub> S1 14 : L <sub>in</sub> S2 16 : R <sub>in</sub> S2 20 : L <sub>in</sub> S3 22 : R <sub>in</sub> S3 1 : L <sub>in</sub> E2 3 : R <sub>in</sub> E2 51 : L <sub>in</sub> E3 49 : R <sub>in</sub> E3	Audio Input	These pins accept an audio signal as input. The recommended input signal level is 300mV <sub>rms</sub> .	$ \begin{array}{c} 8 \\ 10 \\ 14 \\ 16 \\ 20 \\ 22 \\ 1 \\ 49 \end{array} $

PIN No.	PIN NAME	FUNCTION	INTERFACE CIRCUIT
25 : Mute	Mute	If the voltage on this pin is above 1.5V, all audio outputs (main, sub, and TV) are disabled.	15kΩ 15kΩ 15kΩ 15kΩ 15kΩ 15kΩ
46 : V <sub>out</sub> 1 36 : V <sub>out</sub> 2	Monitor Output	These pins output the selected composite signal. The standard output signal amplitude is 2.0V <sub>p-p</sub> . These pins can sink a maximum current of 3.0mA.	
47 : CLAMP1 37 : CLAMP2	Clamp Filter	These pins are a filter terminal for the clamp circuit to maintain the monitor output at a constant DC level. If these pins are tied to GND, the clamp circuit is disabled, so that the DC voltage of the monitor output cannot be clamped to a constant level.	37 47 47 47 47 47 47 47 47 47 4
48 : Y <sub>in</sub> 1 40 : C <sub>in</sub> 1 38 : Y <sub>in</sub> 2 30 : C <sub>in</sub> 2	Comb Y/C Input	These pins accept a Y/C separated signal from the comb filter as input. The recommended input signal level is 2.0V <sub>p-p</sub> for Y signal and 600mV <sub>p-p</sub> for C signal (burst).	$\begin{array}{c} 48 \\ 40 \\ 38 \\ 30 \end{array}$

PIN No.	PIN NAME	FUNCTION	INTERFACE CIRCUIT
44 : Y <sub>out</sub> 1 42 : C <sub>out</sub> 1 34 : Y <sub>out</sub> 2 32 : C <sub>out</sub> 2	Y/C Output	These pins output the Y and C signals that are fed to the V/C/D circuits. The standard output signal level is $2.0V_{p-p}$ for Y signal and $600mV_{p-p}$ for C signal (burst). These pins can sink a maximum current of 2.5mA.	44 42 34 32
28 : I/O1 29 : I/O2	1/0	These pins are for input and output to and from the 1bit DAC/ADC of the bus signal. These pins can source a maximum current of 2.0mA.	
31 : O3	03	This pin is for output of the 1bit DAC of the bus signal. This pin can source a maximum current of 2.0mA.	
26 : SDA 27 : SCL	SCL / SDA	These pins are for input of the I <sup>2</sup> C bus.	
33 : R <sub>out</sub> 2 35 : L <sub>out</sub> 2 39 : R <sub>out</sub> D/ R <sub>out</sub> TV 41 : L <sub>out</sub> D/ L <sub>out</sub> TV 43 : R <sub>out</sub> 1	Audio Output	These pins output an audio signal. These pins can sink a maximum current of 1.4mA.	33 35 39 41 43 45 41 43 45

ADDRESS MAP

(Slave address 90H, 91H)

MODE	DATA No.	DATA								
	Data 1	D <sub>07</sub>	D06	D05	D <sub>04</sub>	D <sub>03</sub>	D <sub>02</sub>	D <sub>01</sub>	D <sub>00</sub>	
				D	AC Outpu	it	So	ound Mut	e	
	TA8851BN			(0)	(1)	(1)	(1)	(1)	(1)	
		_	_				Dual	Sound	Mute	
	TA8851CN						Sound			
Write							Output			
							(1)	(1)	(1)	
	Data 2 (main)	D <sub>17</sub>	D <sub>16</sub>	D <sub>15</sub>	D <sub>14</sub>	D <sub>13</sub>	D <sub>12</sub>	D <sub>11</sub>	D <sub>10</sub>	
						F.VIDEO				
				-	-	(0)				
	Data 3	D <sub>27</sub>	D <sub>26</sub>	D <sub>25</sub>	D <sub>24</sub>	D <sub>23</sub>	D <sub>22</sub>	D <sub>21</sub>	D <sub>20</sub>	
	(sub)	Y	/C Outpu	t Switchin	g	F.VIDEO	Out	Output Switching		
	(300)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	
		D37	D36	D35	D34	D33	D32	D <sub>31</sub>	D <sub>30</sub>	
Read	Data 4		ADC	ldent		S Input Ident P.O.R			P.O.R	
		(0)	(0)	(0)	(0)	(0)	(0)	(0)	(1)	

F.VIDEO : Forced video mode

P.O.R : Power On reset (power : ON (1))

(0) (1) : preset

#### ◎ Write mode

Output switching (main)

	MODE			BUS [	DATA		Ś	S INPUT	Г	OUTPUT SIGNAL		
	INIODE		D <sub>13</sub>	D <sub>12</sub>	D <sub>11</sub>	D <sub>10</sub>	IS1	IS2	IS3	V <sub>out</sub> 1	R <sub>out</sub> 1	Lout1
	E1		_	1	1	1	_	_		V <sub>in</sub> E1	R <sub>in</sub> E1	L <sub>in</sub> E1
	E2			1	1	0		_		V <sub>in</sub> E2	R <sub>in</sub> E2	L <sub>in</sub> E2
	E3			1	0	1	_	_		V <sub>in</sub> E3	R <sub>in</sub> E3	L <sub>in</sub> E3
	E4			1	0	0	_	_		V <sub>in</sub> E4	R <sub>in</sub> E4	L <sub>in</sub> E4
		V	0				0			V <sub>in</sub> S1		
	<b>S</b> 1	S	1	0	1	1		—	—	Y <sub>in</sub> S1 +	R <sub>in</sub> S1	L <sub>in</sub> S1
		3	_				1			C <sub>in</sub> S1		
TV		V	0					0		V <sub>in</sub> S2		
	<b>S</b> 2	S	1	0	1	0	—	_	_	Y <sub>in</sub> S2 +	R <sub>in</sub> S2	L <sub>in</sub> S2
		3	_					1		C <sub>in</sub> S2		
		V	0						0	V <sub>in</sub> S3		
	<b>S</b> 3	~	1	0	0	1	_	_	_	Y <sub>in</sub> S3	R <sub>in</sub> S3	L <sub>in</sub> S3
		S	_						1	+ C <sub>in</sub> S3		
	Mute		_	0	0	0	_	_		Mute	Mute	Mute

#### Output switching (sub)

	MODE			BUS [	ΟΑΤΑ		9	S INPUT	Γ	0	JTPUT SIGNA	AL I
	IVIODE			D22	D <sub>21</sub>	D <sub>20</sub>	IS1	IS2	IS3	V <sub>out</sub> 2	R <sub>out</sub> 2	Lout2
	E1			1	1	1				V <sub>in</sub> E1	R <sub>in</sub> E1	L <sub>in</sub> E1
	E2			1	1	0	_			V <sub>in</sub> E2	R <sub>in</sub> E2	L <sub>in</sub> E2
	E3		_	1	0	1	_			V <sub>in</sub> E3	R <sub>in</sub> E3	L <sub>in</sub> E3
	E4		_	1	0	0	_			V <sub>in</sub> E4	R <sub>in</sub> E4	L <sub>in</sub> E4
		V	0				0			V <sub>in</sub> S1		
	<b>S</b> 1		1	0	1	1	_	—	_	Y <sub>in</sub> S1	R <sub>in</sub> S1	L <sub>in</sub> S1
		S	_				1			+ C <sub>in</sub> S1		
тν		V	0					0		V <sub>in</sub> S2		
	S2	s	1	0	1	0	_	_	—	Y <sub>in</sub> S2 +	R <sub>in</sub> S2	L <sub>in</sub> S2
		5	—					1		C <sub>in</sub> S2		
		V	0						0	V <sub>in</sub> S3		
	<b>S</b> 3		1	0	0	1	—	—	—	Y <sub>in</sub> S3	R <sub>in</sub> S3	L <sub>in</sub> S3
		S							1	+ C <sub>in</sub> S3		
	Mute		_	0	0	0	_	_		Mute	Mute	Mute

#### Output switching (Dual sound output) : This table is only applied for TA8851CN.

	MODE	BUS DATA	OUTPUT SIGNAL			
	WODE	D <sub>02</sub>	R <sub>out</sub> TV	L <sub>out</sub> TV		
Τν	Main	1	R <sub>out</sub> 1	L <sub>out</sub> 1		
	Sub	0	R <sub>out</sub> 2	L <sub>out</sub> 2		

#### Y/C output switching (main)

	MODE		BUS I	ΟΑΤΑ		OUTPUT SIGNAL		
			D16	D <sub>15</sub>	D <sub>14</sub>	Y <sub>out</sub> 1	C <sub>out</sub> 1	
	S-terminal Input			1	1	Y <sub>in</sub> S1 to Y <sub>in</sub> S3 (*1)		
	Video Input	EXC	EPT	1	0	V <sub>out</sub> 1		
T	Comb1	0	0	0	1	Y <sub>in</sub> 1	—	
	Comb2			0	0	V <sub>in</sub> E3		
	S-terminal Input	1	1				C <sub>in</sub> S1 to C <sub>in</sub> S3 (*2)	
С	Video Input	1	0			—	V <sub>out</sub> 1	
	Comb	0	1				C <sub>in</sub> 1	
Mute		0	0	_	_	Mute	Mute	

(\*1): SY1 switches between  $Y_{in}S1 \sim Y_{in}S3$ (\*2): SC1 switches between  $C_{in}S1 \sim C_{in}S3$ 

Y/C output switching (sub)

	MODE		BUS I	ΟΑΤΑ		OUTPUT SIGNAL		
	WODE		D26	D25	D <sub>24</sub>	Y <sub>out</sub> 2	C <sub>out</sub> 2	
	S-terminal Input			1	1	Y <sub>in</sub> S1 to Y <sub>in</sub> S3 (*1)		
Ιγ	Video Input	EXC	EPT	1	0	V <sub>out</sub> 2		
ľ	Comb1	0	0	0	1	Y <sub>in</sub> 2	—	
	Comb2			0	0	V <sub>in</sub> E4		
	S-terminal Input	1	1				C <sub>in</sub> S1 to C <sub>in</sub> S3 (*2)	
c	Video Input	1	0		—	—	V <sub>out</sub> 2	
	Comb	0	1				C <sub>in</sub> 2	
	Mute	0	0	_	—	Mute	Mute	

(\*1): SY2 switches between  $Y_{in}S1{\sim}Y_{in}S3$  (\*2): SC2 switches between  $C_{in}S1{\sim}C_{in}S3$ 

Mute mode

							VIDEO (	OUTPUT		SOL	IND OUT	PUT
	MODE		B	US	PIN 25	MA	AIN	SL	JB	MAIN	SUB	Dual
			BIT	DATA		V <sub>out</sub> 1	Y <sub>out</sub> 1 C <sub>out</sub> 1	V <sub>out</sub> 2	Y <sub>out</sub> 2 C <sub>out</sub> 2	R <sub>out</sub> 1 L <sub>out</sub> 1	R <sub>out</sub> 2 L <sub>out</sub> 2	R <sub>out</sub> D L <sub>out</sub> D
Ext Mute			_	High level				_	Mute	Mute	Mute	
	Sound	Main	D <sub>00</sub>	1	_	_	—	_	_	Mute	_	_
	Sound Mute SW	Sub	D01	1	—	—	—	_		—	Mute	—
		TV (*)	D <sub>02</sub>	1			_	Ι		—		Mute
			D <sub>10</sub>	0								
Mute		Main	D11	0	—	Mute	—	—	—	Mute	—	—
			D <sub>12</sub>	0								
Line	Video &		D <sub>20</sub>	0								
	Sound	Sub	D21	0	—	—	—	Mute	—	—	Mute	—
Bus	Mute SW		D22	0								
		Y/C	D <sub>14</sub>	0			Mute					
		Main	D <sub>15</sub>	0			white					
		Y/C	D24	0					Mute			
		Sub	D25	0		_	_		white			

(\*) : TV mode is only applied for TA8851BN

#### DAC output

TERMINAL	BI	JS	OUTPUT
TERIVIINAL	BIT	DATA	OUIFUI
1/01	Daa	1	Open
1/01	D <sub>03</sub>	0	Low level
1/02	Der	1	Open
17 02	D <sub>04</sub>	0	Low level
03	Dor	1	Open
03	D05	0	Low level

#### **Dual Sound Selection**

MODE	Bl	JS	OUTPUT		
WODE	BIT	DATA	R <sub>out</sub> D	L <sub>out</sub> D	
MAIN		1	Main	Main	
WAIN	Dee		Sound	Sound	
SUB			Sub	Sub	
300		0	Sound	Sound	

# 

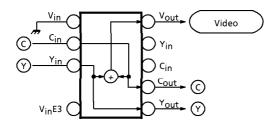
TERMINAL	INPUT	Bl	JS
TERIVIINAL	INFUT	BIT	DATA
V/. C1	L	Dev	1
V <sub>in</sub> S1	Н	D <sub>31</sub>	0
V/- 52	L	Der	1
V <sub>in</sub> S2	Н	D <sub>32</sub>	0
14. 52	L	Dee	1
V <sub>in</sub> S3	Н	D33	0

ADC	ident
-----	-------

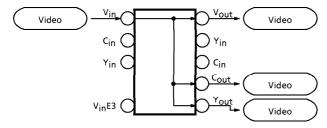
TERMINAL	INPUT	Bl	JS
TERIVIINAL	INFOT	BIT	DATA
1/01	L	Dat	1
1/01	Н	D34	0
1/02	L De-	Dee	1
17.02	Н	D35	0
13	L	Dea	1
15	Н	D36	0
14	L	Dar	1
14	Н	D37	0

#### MODE EXPLANATION

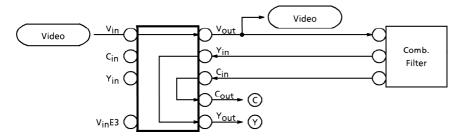
<S-terminal input mode>



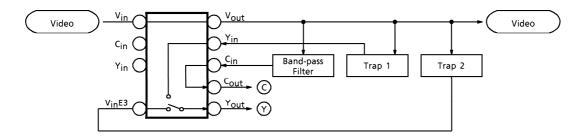
#### <Video input mode>



#### <Comb.1 input mode>



#### <Comb.2 input mode>



## <u>TOSHIBA</u>

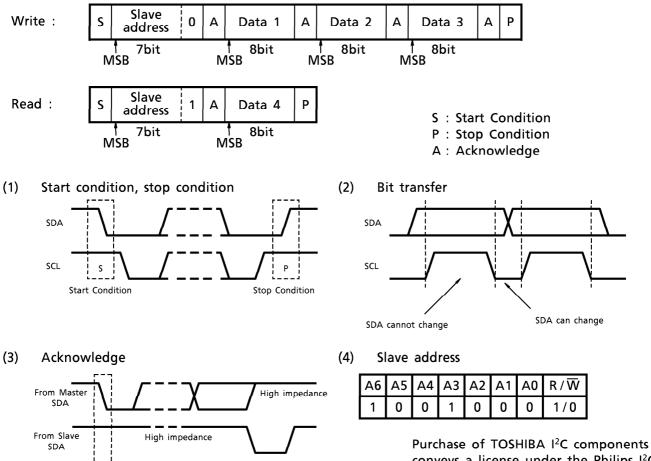
#### I<sup>2</sup>C BUS CONTROLLED FORMAT SUMMARY

Bus Controlled format of TA8851CN is based on I<sup>2</sup>C Bus Control format of Philips.

Data transfer format

From Master SCL

S

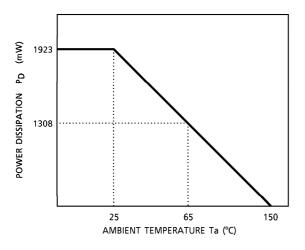


conveys a license under the Philips I<sup>2</sup>C Patent Rights to use these components in an I<sup>2</sup>C system, provided that the system conforms to the I<sup>2</sup>C Standard Specification as defined by Philips.

#### **MAXIMUM RATINGS** ( $Ta = 25^{\circ}C$ )

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	Vcc	13	V
Power Dissipation	P <sub>D</sub> max	1923 (Note)	mW
Input Signal Voltage	e <sub>in</sub>	5	V <sub>p-p</sub>
Operating Temperature	T <sub>opr</sub>	- 20~65	°C
Storage Temperature	T <sub>stg</sub>	- 55~150	°C

(Note) When using the device at above  $Ta = 25^{\circ}C$ , decrease the power dissipation by 15.4mW for each increase of 1°C.



#### **RECOMMENDED OPERATING CONDITION**

PIN No.	PIN NAME	MIN.	TYP.	MAX.	UNIT
18	V <sub>CC</sub>	8.1	9.0	9.9	V

#### ELECTRICAL CHARACTERISTICS

DC CHARACTERISTICS DC voltage characteristics (Unless other wise specified,  $V_{CC} = 9V$ , Ta = 25°C)

PIN No.	PIN NAME	SYMBOL	TEST CIR- CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
1	L <sub>in</sub> E2	V <sub>1</sub>			5.0	5.2	5.4	
2	VinE2	V <sub>2</sub>	-		5.0	5.2	5.4	
3	R <sub>in</sub> E2	V3	-		5.0	5.2	5.4	
4	LinE1	V4	1	_	5.0	5.2	5.4	
5	VinE1	V5	-		5.0	5.2	5.4	
6	R <sub>in</sub> E1	V6	1	_	5.0	5.2	5.4	
7	V <sub>in</sub> S1	V7	1	_	5.0	5.2	5.4	
8	L <sub>in</sub> S1	, V8	1	_	5.0	5.2	5.4	
9	Y <sub>in</sub> S1	Vg		_	5.0	5.2	5.4	
10	R <sub>in</sub> S1	V10	1	_	5.0	5.2	5.4	
11	C <sub>in</sub> S1	V11	1	_	5.0	5.2	5.4	
13	V <sub>in</sub> S2	V13	1	_	5.0	5.2	5.4	
14	L <sub>in</sub> S2	V14	1		5.0	5.2	5.4	
15	Y <sub>in</sub> S2	V15		_	5.0	5.2	5.4	
16	R <sub>in</sub> S2	V16		_	5.0	5.2	5.4	
17	C <sub>in</sub> S2	V17	1		5.0	5.2	5.4	
19	V <sub>in</sub> S3	V19	1		5.0	5.2	5.4	
20	L <sub>in</sub> S3	V20	1		5.0	5.2	5.4	
21	Y <sub>in</sub> S3	V <sub>21</sub>	1	_	5.0	5.2	5.4	
22	R <sub>in</sub> S3	V <sub>22</sub>	1	_	5.0	5.2	5.4	
23	C <sub>in</sub> S3	V <sub>23</sub>	- 1	-	5.0	5.2	5.4	V
25	MUTE	V25	1	_	_	1.5	_	
26	SDA	V <sub>26</sub>	1	—	_	4.2	_	
27	SCL	V <sub>27</sub>		_	—	4.2	_	
28	I/O1	V <sub>28</sub>		_	8.5	9.0	_	
29	I/O2	V29			8.5	9.0	—	
30	C <sub>in</sub> 2	V30			5.0	5.2	5.4	
31	O3	V31		_	8.5	9.0	—	
32	C <sub>out</sub> 2	V <sub>32</sub>			3.4	3.7	4.0	
33	R <sub>out</sub> 2	V33			3.7	4.0	4.3	
34	Y <sub>out</sub> 2	V34			3.4	3.7	4.0	
35	L <sub>out</sub> 2	V35		-	3.7	4.0	4.3	
36	V <sub>out</sub> 2	V36		_	2.3	2.8	3.3	
37	CLAMP2	V37			2.7	3.2	3.7	
38	Y <sub>in</sub> 2	V38		_	5.0	5.2	5.4	
39	R <sub>out</sub> TV	V39			3.7	4.0	4.3	
40	C <sub>in</sub> 1	V <sub>40</sub>			5.0	5.2	5.4	
41	L <sub>out</sub> TV	V41			3.7	4.0	4.3	
42	C <sub>out</sub> 1	V42		-	3.4	3.7	4.0	
43	R <sub>out</sub> 1	V43		—	3.7	4.0	4.3	

PIN No.	PIN NAME	SYMBOL	TEST CIR- CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
44	Y <sub>out</sub> 1	V44		—	3.4	3.7	4.0	
45	L <sub>out</sub> 1	V45		—	3.7	4.0	4.3	
46	V <sub>out</sub> 1	V46		—	2.3	2.8	3.3	
47	CLAMP1	V47		—	2.7	3.2	3.7	
48	Y <sub>in</sub> 1	V48		—	5.0	5.2	5.4	
49	R <sub>in</sub> E3	V49	1	—	5.0	5.2	5.4	V
50	V <sub>in</sub> E3	V <sub>50</sub>		—	5.0	5.2	5.4	
51	L <sub>in</sub> E3	V51		—	5.0	5.2	5.4	
52	R <sub>in</sub> E4	V <sub>52</sub>		—	5.0	5.2	5.4	
53	V <sub>in</sub> E4	V53	]	_	5.0	5.2	5.4	
54	L <sub>in</sub> E4	V54	]	_	5.0	5.2	5.4	

### DC current characteristics (Unless other wise specified, $V_{CC} = 9V$ , Ta = 25°C)

PIN No.	PIN NAME	SYMBOL	TEST CIR- CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
18	Vcc	lcc	1	_	48	60	80	mA

### AC CHARACTERISTICS (Unless otherwise specified, $V_{CC} = 9V$ , Ta = 25°C)

CHARACTERI	бтіс	SYMBOL	TEST CIR- CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT	
Clamp Current		IDIS	2	Discharge current	11	17	28	μΑ	
clamp current		<sup>I</sup> CHR	2	charge current	0.50	1.25	1.80	mA	
		RM-AUD		—	50	100	150		
		RS-AUD		—	65	130	195		
		RT-AUD		—	40	80	120		
Dutput Resistance		RM-VID	2	_	25	50	75	Ω	
		Rs-VID		—	50	100	150		
		RM-Y/C		_	25	50	75		
		Rs-Y/C		—	40	80	120		
		Riaud		—	49	70	100		
Input Resistance		Ri∨ID	2	—	20	30	40	kΩ	
		Riy/C		—	20	30	40		
Video Input	(Main)	Vd <sub>VID</sub> 1		(Note 1)	1.6	2.1	—		
Dynamic Range	(Sub)	Vd <sub>VID</sub> 2	2		1.6	2.1	—	V <sub>p-p</sub>	
Dynamic Kange	(Clamp off)	VdVID3			2.4	2.8	—		
Y/C Input	(Main)	Vdy/c1			2.4	2.8	—		
Dynamic Range	(Sub)	Vdy/c2	2	(Note 2)	2.4	2.8	—		
Comb Input	(Main)	Vd <sub>COM</sub> 1	2		5.1	6.5	—	V <sub>p-p</sub>	
Dynamic Range	(Sub)	VdCOM2			5.1	6.5	—		
S Video	(Main)	Vds-V1			1.6	2.1	_		
S Video	(Sub)	Vds-v2	2	(Note 3)	1.6	2.1	—	V <sub>p-p</sub>	
Dynamic Range	(Clamp off)	Vds-V3			2.4	2.8	_		
Monochrome Mode	(Main)	Vd <sub>B</sub> / <sub>W</sub> 1	2	(Nata 4)	1.6	2.1	—		
Dynamic Range	(Sub)	Vd <sub>B</sub> / <sub>W</sub> 2	2	(Note 4)	1.6	2.1	_	V <sub>p-p</sub>	

CHARACTERISTIC		SYMBOL	TEST CIR- CUIT	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
	(Main)	G <sub>VID</sub> 1			5.7	6.2	6.7	
Video Gain	(Sub)	G <sub>VID</sub> 2	2	(Note 5)	5.7	6.2	6.7	dB
	(Clamp Off)	GVID3			5.8	6.3	6.8	
N/C Cain	(Main)	GY/C1			5.9	6.4	6.9	
Y/C Gain	(Sub)	GY/C2	1	$(h) \rightarrow (c)$	5.9	6.4	6.9	
	(Main)	GCOM1	2	(Note 6)	- 0.5	0	0.5	dB
Comb Gain	(Sub)	GCOM2	1		- 0.5	0	0.5	1
	(Main)	G <sub>S-V</sub> 1			5.7	6.2	6.7	
S Video Gain	(Sub)	GS-V2	2	(Note 7)	5.7	6.2	6.7	dB
	(Clamp Off)	G <sub>S-V</sub> 3	1		6.0	6.5	7.0	
	(Main)	G <sub>B</sub> /W1			5.7	6.2	6.7	
B/W Mode Gain	(Sub)	G <sub>B</sub> /W <sup>2</sup>	2	(Note 8)	5.7	6.2	6.7	dB
	(Main)	C <sub>VID</sub> 1			50	60	<u> </u>	
Video Switch Crosstalk	(Sub)	C <sub>VID</sub> 2	2	(Note 9)	50	60	<u> </u>	dB
	(Clamp Off)	CVID3		(Note 12)	50	60	<u> </u>	
	(Main)	C <sub>Y</sub> 1			50	60	<u> </u>	
Y Switch Crosstalk	(Sub)	C <sub>Y</sub> 2	2	(Note 10)	50	60		dB
	(Main)	C <sub>C</sub> 1			50	60	_	
C Switch Crosstalk	(Sub)	Cc2	2	(Note 11)	50	60	_	dB
Video Mute Attenuation	(000)	GVM	2	(Note 13)	50	60	_	dB
	(Main)	fVID1	_	(	9.0	_		
Video Frequency Response	(Sub)	f <sub>VID</sub> 2	2	(Note 14)	9.0	_	_	MHz
	(Clamp Off)	fVID <sup>2</sup>	1 -	(	9.0	_	_	
	(Main)	fy/c1			9.0			
Y/C Frequency Response	(Sub)	fy/c <sup>2</sup>			9.0		<u> </u>	
	(Main)	fcom1	2	(Note 15)	9.0	_	<u> </u>	MHz
Comb Frequency Response	(Marii) (Sub)	fcom2	1		9.0	_	<u>  _</u>	
	(Main)	fs-v1			9.0			
S Video Frequency Response	(Main) (Sub)	fs-v1	2	(Note 16)	9.0			MHz
3 video frequency response	(Clamp Off)	fs_v2		(Note 10)	9.0			101112
	(Main)	fB/W1			9.0			
B/W Mode Frequency Response	(Marri) (Sub)	fB/W2	2	(Note 17)	9.0			MHz
Clamp Level	(505)	CL	2	(Note 18)	5.0	21		%
Audio Dynamic Range		VdAUD	2	(Note 10)	5.0	6.0		
Audio Dynamic Range			2	(Note 19)	- 0.5	0.0	0.5	V <sub>p-p</sub> dB
Audio Gam Audio Frequency Response		G <sub>AUD</sub>	2	(Note 20)	0.1	3.0	0.5	MHz
Audio Switch Crosstalk			2	(Note 21)	60	70		dB
Audio Switch Crossian		C <sub>AUD</sub> G <sub>AM</sub>	2	(Note 22)	60	70		dB
Audio Nutle Attendation Audio Select Offset		 ⊿VAUD	2	(Note 23)	- 30	0	30	mV
S Input Discriminating Voltage		VthS	2	(Note 24)	2.4	2.6	2.8	V
ADC Input Discriminating Voltage		VthS VthADC	2	(Note 23)	1.8	2.0	2.8	v
External Mute-ON Voltage			2	(Note 28)	1.0	1.5	2.0	V
DAC Output Low Level Voltage				(Note 27)	1.0	- 1.5	0.5	v V
DAC Output Low Level Voltage		VDAC	2	(NOLE 28)	L U	_	L 0.5	l v

SURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC} = 9V$ ,Sw MODEDATA 2MEASUREMENT MESw MODEDATA 2MEASUREMENT MEsw MODEDATA 2MEASUREMENT MEothers-b/off****0011(1) V1 15kHz, variable-amplothers-b/off****0011(2) For each, measure the aw others-b/off****0011(2) For each, measure the aa, others-b/off****0011(1) V1 15kHz, Variable-amplothers-b/off****0110V1 at which the wavefow others-b/off****0110V1 at which the wavefow others-b/off****0110V1 at which the wavefoa, others-b/off****0110V1 at which the wavefo547-on, others-b/off****0110V2 at	TEST	TEST CONDITIONS				
ITEM         SW MODE         DATA 2           Vinci $5_2$ -a         others-b/off $****0110$ Dynamic Range         VinSi $5_2$ -a         others-b/off $****0111$ Dynamic Range         VinSi $5_3$ -a         others-b/off $****0011$ Dynamic Range         VinSi $5_3$ -a         others-b/off $****0101$ VinSi $5_3$ -a         others-b/off $****0101$ $****0101$ VinSi $5_3$ -a         others-b/off $****0101$ $****0101$ VinSi $5_3$ -a         others-b/off $****0101$ $****0101$ VinBut         VinEd $5_2$ -a         others-b/off $****0101$ Vinput         VinSi $5_3$ -a         others-b/off $*****0101$ <t< td=""><td></td><td></td><td></td><td>MEASURING CONDITIONS (UI</td><td>NLESS OTHE</td><td>RWISE SPECIFIED, <math>V_{CC} = 9V</math>, Ta = 25<math>\pm 3^{\circ}</math>C)</td></t<>				MEASURING CONDITIONS (UI	NLESS OTHE	RWISE SPECIFIED, $V_{CC} = 9V$ , Ta = 25 $\pm 3^{\circ}$ C)
Sw MODE         DATA 2           VinE1         52-a         others-b/off         tww011           VinE1         55-a         others-b/off         tww0111           VinE1         55-a         others-b/off         tww0111           VinE1         55-a         others-b/off         tww0111           VinS1         574-a         others-b/off         tww0110           VinS2         5194-a         others-b/off         tww0110           VinS3         5194-a         others-b/off         tww0110           VinS1         570-a         others-b/off         tww0110           VinS1         570-a         others-b/off         tww0110           VinS1         570-a         others-b/off         tww0110           VinS2         5194-a         others-b/off         tww0110           VinB4         553-a         others-b/off         tww0110           VinPut         VinE4 <td>NOTE</td> <td></td> <td></td> <td>SW &amp; VR MODE</td> <td></td> <td></td>	NOTE			SW & VR MODE		
VinEl         S2-a         others-b/off         ****011           VinEl         55-a         others-b/off         ****011           VinS1         57-a         others-b/off         ****011           VinS1         57-a         others-b/off         ****011           VinS1         57-a         others-b/off         ****011           VinS3         519A-a, others-b/off         ****010           VinS1         57-a         others-b/off         ****010           VinE1         55-a         others-b/off         ****011           VinS1         57-a         others-b/off         ****0110           VinS1         57-a         others-b/off         ****0110           VinS1         57-a         others-b/off         ****0110           VinS2         519A-a, others-b/off         ****0110           VinS2         519A-a, others-b/off         ****0110           VinS2         519A-a, others-b/off         ****0110           VinS2         519A-a, others-b/off         ****0110           VinS3         519A-a, others-b/off         ****0110           VinPU         VinS2         519A-a, others-b/off         ****0111           VinPU         VinS3         519A-a, 547-on, othe				SW MODE	DATA 2	
Vinct         System         others-b/off         ****011           VinS1         5ystem         others-b/off         ****0010           Dynamic Range         VinS2         5134-a, others-b/off         ****0010           Wain)         VinS3         5194-a, others-b/off         ****0110           VinS3         5194-a, others-b/off         ****0110           VinE3         559-a         others-b/off         ****010           VinE3         559-a         others-b/off         ****0110           VinE3         559-a         others-b/off         ****0110           VinE3         559-a         others-b/off         ****0110           VinE1         55-a         others-b/off         ****0110           VinE3         510-a, others-b/off         ****0110           VinE3         510-a, others-b/off         ****0110           Vin53         510-a, others-b/off         ****0110           Vin53         510-a, others-b/off         ****0110           Vin53         510-a, others-b/off         ****0110           Vin53         510-a, star-on, others-b/off         ****01010           Vin64         553-a, others-b/off         ****01010           Vin61         553-a, star-on, others-b/off			V <sub>in</sub> E2	-	****0110	
V Input         VinS1 $5_{7}$ A-a, others-b/off         ****0010           Dynamic Range         VinS2 $5_{13}$ A-a, others-b/off         ****0101           Wain)         VinE3 $5_{0}$ -a, others-b/off         ****0101           VinE3 $5_{0}$ -a, others-b/off         ****0101           VinE3 $5_{0}$ -a, others-b/off         ****0101           VinE1 $5_{2}$ -a         others-b/off         ****0110           VinS1 $5_{13}$ -a, others-b/off         ****0110           VinS2 $5_{13}$ -a, others-b/off         ****0110           VinS3 $5_{0}$ -a, others-b/off         ****0110           VinS1 $5_{7}$ -a, others-b/off         ****0110           VinB2 $5_{13}$ -a, others-b/off         ****0110           VinB3 $5_{0}$ -a, others-b/off         ****0110           VinB3 $5_{13}$ -a, $5_{4}$ -on, others-b/off         ****0101           VinB4 $5_{3}$ -a, others-b/off         ****0101           VinD4 </td <td></td> <td></td> <td>V<sub>in</sub>E1</td> <td>S5-a , others-b / off</td> <td>****0111</td> <td>/1//// 15045</td>			V <sub>in</sub> E1	S5-a , others-b / off	****0111	/1//// 15045
Dynamic Range         VinS2 $$13A-a$ , others-b/off         ****0001           (Main)         VinS3 $$19A-a$ , others-b/off         ****0101           VinE3 $$50-a$ , others-b/off         ****0101           VinE3 $$50-a$ , others-b/off         ****0101           VinE3 $$52-a$ , others-b/off         ****0101           VinE1 $$52-a$ , others-b/off         ****011           VinS1 $$57-a$ , others-b/off         ****0101           VinS3 $$19A-a$ , others-b/off         ****0101           VinE3 $$50-a$ , others-b/off         ****0101           VinE4 $$53-a$ , $$247-on$ , others-b/off         ****0101           VinS3 $$19A-a$ , $$547-on$ , others-b/off         ****0101           VinE4 $$57-a$ , $$247-on$ , others-b/off         ****0101           Vine5 $$52-a$ , $$247-on$ , others-b/off         ****0101           Vine1 $$57-a$ , $$247-on$ , others-b/off         ****0101		V Input	V <sub>in</sub> s1	S7A-a , others-b / off	****0011	(1) v† 13km2, variable-amplitude input. (2) Eas as here an even the events of the
(Main)         VinS3         S19A-a, others-b/off         ****0001           VinE3         S50-a, others-b/off         ****0101           VinE4         S53-a, others-b/off         ****0101           VinE3         S50-a, others-b/off         ****0101           VinE4         S53-a, others-b/off         ****0110           VinE1         S5-a, others-b/off         ****0111           Vin51         S7A-a, others-b/off         ****0111           Vin52         S13A-a, others-b/off         ****0110           Vin53         S19A-a, others-b/off         ****0110           Vin53         S19A-a, others-b/off         ****0110           Vin53         S19A-a, others-b/off         ****0110           Vin53         S50-a, others-b/off         ****0110           Vin53         S50-a, others-b/off         ****0110           Vin51         S52-a, others-b/off         ****0110           Vin51         S52-a, sta7-on, others-b/off         ****0110           Vin61         S53-a, sta7-on, others-b/off <td< td=""><td>1-(1)</td><td>Dynamic Range</td><td>V<sub>in</sub>s2</td><td>S13A-a, others-b / off</td><td>****0010</td><td>(z) For each, measure the amplitude of</td></td<>	1-(1)	Dynamic Range	V <sub>in</sub> s2	S13A-a, others-b / off	****0010	(z) For each, measure the amplitude of
VinE3 $5_{57-a}$ others-b/off         ****0101           VinE4 $5_{57-a}$ others-b/off         ****0101           VinE4 $5_{57-a}$ others-b/off         ****0110           VinE1 $5_{57-a}$ others-b/off         ****0111           Dynamic Range         Vin51 $5_{74-a}$ others-b/off         ****0011           VinS1 $5_{74-a}$ others-b/off         ****0011         ****0011           VinS1 $5_{74-a}$ others-b/off         ****0011         ****0011           VinS1 $5_{74-a}$ others-b/off         ****0101         ****0101           VinE3 $5_{91-a}$ others-b/off         ****0101         ****0101           VinE1 $5_{57-a}$ $5_{47-on}$ others-b/off         ****0101           Vin51 $5_{7-a}$ $5_{47-on}$ others-b/off         ****0101		(Main)	V <sub>in</sub> sa	S19A-a, others-b/off	****0001	vi at writh the waveform on pin
VinEd         S53-a         others-b/off         ****0100           VinE1         52-a         others-b/off         ****0110           VinE1         52-a         others-b/off         ****0111           Vin51         57-a         others-b/off         ****0111           Vin51         57-a         others-b/off         ****0111           Vin52         513A-a         others-b/off         ****0110           Vin53         519A-a         others-b/off         ****0101           Vin53         519A-a         others-b/off         ****0101           Vin53         519A-a         others-b/off         ****0101           Vin64         553-a         others-b/off         ****0110           Vin61         553-a         547-on, others-b/off         ****0101           Vin53         510-a			V <sub>in</sub> E3	S50-a , others-b / off	****0101	46 is distorted.
VinE2         52-a         others-b/off         DATA 3           VinE1         55-a         others-b/off         ****0110           Dynamic Range         Vin51         57A-a         others-b/off         ****0111           Dynamic Range         Vin51         57A-a         others-b/off         ****0111           Vin51         57A-a         others-b/off         ****0101         ****0010           Vin53         550-a         others-b/off         ****0101         ****0101           Vin53         550-a         others-b/off         ****0101         ****0101           VinE4         553-a         others-b/off         ****0110         ****0101           VinE4         55-a         547-on, others-b/off         ****0101         ****0101           VinE1         55-a         547-on, others-b/off         ****0101         *****0101			VinE4	•	****0100	
VinE2         S2-a         others-b/off         ****0110           V Input         Vin51         55-a         others-b/off         ****0111           Dynamic Range         Vin51         57A-a         others-b/off         ****0011           Dynamic Range         Vin52         513A-a         others-b/off         ****0010           Vin52         513A-a         others-b/off         ****010           Vin53         550-a         others-b/off         ****010           Vin53         530-a         others-b/off         ****010           Vin53         530-a         others-b/off         ****010           Vin54         53-a         others-b/off         ****010           Vin51         52-a         547-on, others-b/off         ****010           Dynamic Range         Vin53         513A-a         547-on, others-b/off         ****010           Main)         Vin53         513A-a         547-on, others-b/off         ****010           Main)         Vin53         513A-a         547-on, others-b/off         ****010           Main)         Vin53         513A-a         547-on, others-b/off         ****010           Vin53         513A-a         547-on, others-b/off         ****010 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>						
V         Input         VinE1         S5-a         others-b / off         ****011           Dynamic Range         VinS1         57A-a         others-b / off         ****011           Dynamic Range         VinS2         513A-a         others-b / off         ****011           (5ub)         VinS3         590-a         others-b / off         ****0101           VinS3         550-a         others-b / off         ****0101           VinE3         550-a         others-b / off         ****0101           VinE4         553-a         others-b / off         ****0101           VinE1         553-a         s47-on, others-b / off         ****0110           VinS1         57A-a         547-on, others-b / off         ****0110           VinS1         57A-a         547-on, others-b / off         ****0110           VinS1         57A-a         547-on, others-b / off         ****0101           VinS1         57A-a         547-on, others-b / off         ****0101           Main)         VinS2         513A-a, 547-on, others-b / off         ****0101           VinB1         557-a         547-on, others-b / off         ****0101           VinB2         553-a         547-on, others-b / off         ****0101			V <sub>in</sub> E2	-	****0110	
VinS1 $57A-a$ others-b/off****0011Dynamic RangeVinS2 $57A-a$ others-b/off****0101(Sub)VinS2 $519A-a$ others-b/off****0101VinE3 $550-a$ others-b/off****0100VinE3 $550-a$ others-b/off****0110VinE4 $553-a$ others-b/off****0110VinE2 $52-a$ $547-on$ others-b/off****0110VVinE1 $55-a$ $547-on$ others-b/off****0110VVinE1 $55-a$ $547-on$ others-b/off****0110VVinE1 $55-a$ $547-on$ others-b/off****0110VVinS1 $57A-a$ $547-on$ others-b/off****0110VinS2 $519A-a$ $547-on$ others-b/off****0110VinE3 $550-a$ $547-on$ others-b/off****0110VinE3 $550-a$ $547-on$ others-b/off****0110VinE3 $550-a$ $547-on$ others-b/off****0100VinE3 $550-a$ $547-on$ others-b/off****0100VinE3 $550-a$ $537-on$ others-b/off****0100VinE4 $553-a$ $537-on$ others-b/off****010VinE4 $57A-a$ $537-on$ others-b/off****010VinE4 $57-a$ $537-on$ others-b/off****010VinE4 $57-a$ $537-on$ others-b/off****010VinE3 $519A-a$ $537-on$ others-b/off****010 <tr< td=""><td></td><td>V Innut</td><td>V<sub>in</sub>E1</td><td>-</td><td>****0111</td><td>(1) V1 15kHz, Variable-amplitude input.</td></tr<>		V Innut	V <sub>in</sub> E1	-	****0111	(1) V1 15kHz, Variable-amplitude input.
Dynamic Range       VinS2 $5_{13}$ A-a, others-b/off       ****0010         (Sub)       Vin53 $5_{19}$ A-a, others-b/off       ****0101         VinE3 $5_{50}$ -a, others-b/off       ****0100         VinE4 $5_{53}$ -a, others-b/off       ****0100         VinE4 $5_{53}$ -a, others-b/off       ****0110         VinE1 $5_{5-a}$ , $5_{47}$ -on, others-b/off       ****0110         VinE1 $5_{5-a}$ , $5_{47}$ -on, others-b/off       ****0110         Valuatic Range       Vin51 $5_{7A-a}$ , $5_{47}$ -on, others-b/off       ****0110         Valuatic Range       Vin51 $5_{7A-a}$ , $5_{47}$ -on, others-b/off       ****0101         (Main)       Vin52 $5_{13}$ -a, $5_{47}$ -on, others-b/off       ****0101         (Main)       Vin53 $5_{19}$ -a, $5_{47}$ -on, others-b/off       ****0101         (Main)       Vin53 $5_{13}$ -a, $5_{47}$ -on, others-b/off       ****0101         (Main)       Vin63 $5_{50-a}$ , $5_{47}$ -on, others-b/off       ****0101         (Main)       Vin63 $5_{50-a}$ , $5_{47}$ -on, others-b/off       ****0101         Vine2 $5_{2-a}$ , $5_{37}$ -on, others-b/off       ****0110       Vin64         Vine1 $5_{5-a}$ , $5_{37}$ -on, others-b/off       ****010 <td>(0)-1</td> <td>Dynamir Range</td> <td>V<sub>in</sub>S1</td> <td>S7A-a , others-b / off</td> <td>****0011</td> <td>(2) For each, measure the amplitude of</td>	(0)-1	Dynamir Range	V <sub>in</sub> S1	S7A-a , others-b / off	****0011	(2) For each, measure the amplitude of
Vin53 $5_{19A-a}$ , others-b/off         ****0001           VinE3 $5_{50-a}$ , others-b/off         ****0101           VinE4 $5_{53-a}$ , others-b/off         ****0100           VinE2 $5_{53-a}$ , $5_{47}$ -on, others-b/off         ****0110           VinE1 $5_{53-a}$ , $5_{47}$ -on, others-b/off         ****0110           VinE1 $5_{5-a}$ , $5_{47}$ -on, others-b/off         ****0111           Dynamic Range         Vin51 $5_{7A-a}$ , $5_{47}$ -on, others-b/off         ****0101           Valin         Vin52 $5_{13A-a}$ , $5_{47}$ -on, others-b/off         ****0101           Valin         Vin53 $5_{19A-a}$ , $5_{47}$ -on, others-b/off         ****0101           Main         Vin53 $5_{19A-a}$ , $5_{47}$ -on, others-b/off         ****0101           Valin         Vin53 $5_{50-a}$ , $5_{47}$ -on, others-b/off         ****0101           Vin64 $5_{53-a}$ , $5_{47}$ -on, others-b/off         ****0101           Vin61 $5_{53-a}$ , $5_{47}$ -on, others-b/off         ****0101           Vin63 $5_{53-a}$ , $5_{47}$ -on, others-b/off         ****0101           Vin64 $5_{53-a}$ , $5_{37}$ -on, others-b/off         ****0110           Vinput         Vin51 $5_{7-a}$ , $5_{37}$ -on, others-b/off			V <sub>in</sub> sz	S13A-a, others-b / off	****0010	V <sub>1</sub> at which the waveform on pin
VinE3 $550-a$ others-b/off****0101VinE4 $553-a$ others-b/off****0100VinE4 $553-a$ $547-on$ others-b/offV InputVinE1 $55-a$ $547-on$ others-b/offV InputVin51 $57-a$ $547-on$ others-b/offV InputVin51 $57-a$ $547-on$ others-b/offV InputVin52 $513A-a$ $547-on$ others-b/offVin53 $519A-a$ $547-on$ others-b/offVin53 $519A-a$ $547-on$ others-b/off(Main)Vin53 $519A-a$ $547-on$ others-b/off(Main)Vin53 $519A-a$ $547-on$ others-b/off(Main)Vin53 $550-a$ $547-on$ others-b/off(Main)Vin64 $553-a$ $547-on$ others-b/offVInputVin61 $55-a$ $537-on$ others-b/offVInputVin61 $55-a$ $537-on$ others-b/offVInputVin51 $57-a$ $537-on$ others-b/offVInputVin53 $519A-a$ $537-on$ others-b/offVInputVin53 $519A-a$ $537-on$ others-b/offVInputVin53 $519A-a$ $537-on$ others-b/offVin53 $519A-a$ $537-on$ others-b/offVin53 $519A-a$ $537-on$ others-b/offVin53 $519A-a$ $537-on$ others-b/offVin53 $507-a$ $537-on$ others-b/offVin53 $507-a$ $537-on$ <			VinS <sub>3</sub>	S19A-a, others-b/off	****0001	36 is distorted.
VinE4S53-aothers-b / off****0100VinE2S2-a $$47$ -on, others-b / off $a***0110$ V InputVinE1S5-a $$47$ -on, others-b / off $a***0111$ Dynamic RangeVinS1S7A-a, $$47$ -on, others-b / off $a***0111$ Clamp Off)VinS2S13A-a, $$47$ -on, others-b / off $a***0101$ (Clamp Off)VinS3S19A-a, $$47$ -on, others-b / off $a***0101$ (Main)VinS3S19A-a, $$47$ -on, others-b / off $a***0101$ (Main)VinE3S50-a, $$47$ -on, others-b / off $a***0101$ (InputVinE3S50-a, $$547$ -on, others-b / off $a***0101$ VinE3S50-a, $$547$ -on, others-b / off $a***0101$ VinE4S53-a, $$547$ -on, others-b / off $a***0110$ VinE2S2-a, $$537$ -on, others-b / off $a***0110$ VinE1S53-a, $$537$ -on, others-b / off $a***0111$ VinE1S53-a, $$537$ -on, others-b / off $a***0110$ VinS1S13A-a, $$537$ -on, others-b / off $a***0110$ VinE3S50-a, $$537$ -on, others-b / off $a***0110$ Vin53S19A-a, $$537$ -on, others-b / off $a***0110$ Vin64S53-a, $$537$ -on, others-b / off $a***0101$ Vin64S53-a, $$537$ -on, others-b / off $a***0101$ Vin63S19A-a, $$537$ -on, others-b / off $a***0101$ Vin64S537-on, others-b / off $a***0101$ Vin64S53-a, $$537$ -on, others-b / off $a***0101$ Vin64S537-on, others-b / off $a***0101$ Vin64 <t< td=""><td></td><td></td><td>V<sub>in</sub>E3</td><td>S50-a , others-b / off</td><td>****0101</td><td></td></t<>			V <sub>in</sub> E3	S50-a , others-b / off	****0101	
V InputDATA 2V InputVinE2 $5_2$ -a $5_47$ -on, others-b/off****0110V InputVin51 $5_5$ -a $5_47$ -on, others-b/off****0111Dynamic RangeVin51 $5_7A$ -a $5_47$ -on, others-b/off****0010Vin52 $5_13A$ -a $5_47$ -on, others-b/off****0101Vin53 $5_19A$ -a $5_47$ -on, others-b/off****0101Vin53 $5_19A$ -a $5_47$ -on, others-b/off****0101Vin53 $5_19A$ -a $5_47$ -on, others-b/off****0101Vin53 $5_50$ -a $5_47$ -on, others-b/off****0101VinE4 $5_53$ -a $5_47$ -on, others-b/off****0111VinE4 $5_53$ -a $5_37$ -on, others-b/off****0111Vine1 $5_7A$ -a $5_37$ -on, others-b/off****0111Vine1 $5_7a$ -a $5_37$ -on, others-b/off****0111Vin51 $5_7a$ -a $5_37$ -on, others-b/off****0111Vin52 $5_13A$ -a $5_37$ -on, others-b/off****0111Vin52 $5_13A$ -a $5_37$ -on, others-b/off****0101Vin53 $5_19A$ -a $5_37$ -on, others-b/off****0101Vin64 $5_53$ -a $5_37$ -on, others-b/off****0101Vin64 $5_53$ -a $5_37$ -on, others-b/off****0101Vin64 $5_53$ -a $5_37$ -on, others-b/off <td></td> <td></td> <td>V<sub>in</sub>E4</td> <td></td> <td>****0100</td> <td></td>			V <sub>in</sub> E4		****0100	
VinE2S2-aS47-on, others-b/ off $****0110$ V InputVinE1 $55-a$ $547$ -on, others-b/ off $****0111$ Dynamic RangeVinS1 $57A-a$ $547$ -on, others-b/ off $****0011$ Uns1VinS2 $513A-a$ $547$ -on, others-b/ off $****0010$ (Main)VinS2 $513A-a$ $547$ -on, others-b/ off $****0101$ VinS3 $519A-a$ $547$ -on, others-b/ off $****0101$ VinE3 $550-a$ $547$ -on, others-b/ off $****0101$ VinE3 $550-a$ $547$ -on, others-b/ off $****0110$ VinE4 $553-a$ $547$ -on, others-b/ off $****0110$ VinE4 $553-a$ $547$ -on, others-b/ off $****0110$ VinE4 $553-a$ $537$ -on, others-b/ off $****0110$ VinE1 $57-a$ $537$ -on, others-b/ off $****0110$ VinE1 $57-a$ $537$ -on, others-b/ off $****0110$ VinE1 $57-a$ $537$ -on, others-b/ off $****0110$ VinE3 $519A-a$ $537$ -on, others-b/ off $****0110$ VinE3 $519A-a$ $537$ -on, others-b/ off $****0101$ VinE3 $519A-a$ $537$ -on, others-b/ off $****0101$ VinE3 $550-a$ $537$ -on, others-b/ off $****0101$ VinE3 $557-a$ $537$ -on, others-b/ off $****0101$ VinE3 $557-a$ $537$ -on, others-b/ off $****0101$ VinE3 $550-a$ $537$ -on, others-b/ off $****0101$ VinE4 $553-a$ $537$ -on, others-b/ off $****0101$ <td></td> <td></td> <td></td> <td></td> <td>DATA 2</td> <td></td>					DATA 2	
V Input       VinE1 $5_5$ -a $5_47$ -on, others-b/off       ****0111         Dynamic Range       VinS1 $5_7A$ -a $5_47$ -on, others-b/off       ****0010         Clamp Off)       VinS2 $5_13A$ -a, $5_47$ -on, others-b/off       ****0010         (Clamp Off)       VinS3 $5_{19}A$ -a, $5_47$ -on, others-b/off       ****0101         (Main)       VinE3 $5_{53}$ -a, $5_47$ -on, others-b/off       ****0101         VinE3 $5_{53}$ -a, $5_47$ -on, others-b/off       ****0101         VinE4 $5_{53}$ -a, $5_{47}$ -on, others-b/off       ****0110         VinE4 $5_{53}$ -a, $5_{37}$ -on, others-b/off       ****0110         VinE1 $5_{53}$ -a, $5_{37}$ -on, others-b/off       ****0111         Vine1 $5_{5}$ -a, $5_{37}$ -on, others-b/off       ****0111         Vine1 $5_{5}$ -a, $5_{37}$ -on, others-b/off       ****0111         Vine1 $5_{7}$ -a, $5_{37}$ -on, others-b/off       ****0110         Vine2 $5_{7}$ -a, $5_{37}$ -on, others-b/off       ****0111         Vine2 $5_{7}$ -a, $5_{37}$ -on, others-b/off       ****0111         Vine2 $5_{7}$ -a, $5_{37}$ -on, others-b/off       ****0111         Vine3 $5_{19}$ -a, $5_{37}$ -on, others-b/off       ****0101         Vine3			V <sub>in</sub> E2	-	****0110	///// 15611- //
Dynamic Range         VinS1         57A-a         547-on, others-b/off         ****0011           Clamp Off)         VinS2         513A-a, 547-on, others-b/off         ****0010           (Main)         VinS3         519A-a, 547-on, others-b/off         ****0010           (Main)         VinS3         519A-a, 547-on, others-b/off         ****0101           VinE3         550-a         547-on, others-b/off         ****0101           VinE3         550-a         547-on, others-b/off         ****0101           VinE3         550-a         547-on, others-b/off         ****0101           VinE4         553-a         547-on, others-b/off         ****0100           VinE4         553-a         537-on, others-b/off         ****0100           VinE1         55-a         537-on, others-b/off         ****0110           VinE1         55-a         537-on, others-b/off         ****0111           Oynamic Range         VinS1         57A-a, 537-on, others-b/off         ****0111           VinB4         557-a, 537-on, others-b/off         ****0101         ****0101           VinB4         537-on, others-b/off         ****0101         *****0101           VinB4         537-on, others-b/off         *****0101         *****0101		V Input	VinE1	-	****0111	(i) V1 IJKHZ, Variable-amplitude input, V4 – AV
(Clamp Off)       VinS2       513A-a, 547-on, others-b/off       ****0010         (Main)       Vin53       519A-a, 547-on, others-b/off       ****0011         (Main)       Vin53       550-a, 547-on, others-b/off       ****0101         VinE3       550-a, 547-on, others-b/off       ****0101         VinE3       553-a, 547-on, others-b/off       ****0101         VinE4       553-a, 547-on, others-b/off       ****0110         VinE4       553-a, 537-on, others-b/off       ****0110         VinE1       55-a, 537-on, others-b/off       ****0110         VinB1       55-a, 537-on, others-b/off       ****0110         VinS1       55-a, 537-on, others-b/off       ****0110         VinS1       55-a, 537-on, others-b/off       ****0110         VinS1       57A-a, 537-on, others-b/off       ****0110         VinS2       513A-a, 537-on, others-b/off       ****0101         VinS3       519A-a, 537-on, others-b/off       ****0101         VinE3       550-a, 537-on, others-b/off       ****0101         VinE3       557-a, 537-on, others-b/off       ****0101         VinE3       519A-a, 537-on, others-b/off       ****0101         VinE3       553-a, 537-on, others-b/off       *****0101         VinE3	1-(3)		V <sub>in</sub> S1	~	****0011	v3 = uv.
(Main)       VinS3       519A-a, 547-on, others-b/off       ****0001         VinE3       550-a       547-on, others-b/off       ****0101         VinE3       550-a       547-on, others-b/off       ****0101         VinE4       553-a       547-on, others-b/off       ****0100         VinE4       553-a       537-on, others-b/off       ****0110         VinE1       55-a       537-on, others-b/off       ****0110         V Input       Vin51       55-a       537-on, others-b/off       ****0110         V Input       Vin51       57-a       537-on, others-b/off       ****0110         V Input       Vin51       57-a       537-on, others-b/off       ****0110         Othomic Range       Vin51       57A-a       537-on, others-b/off       ****0010         Otho       Vin52       513A-a, 537-on, others-b/off       ****0010         Subb       Vin64       553-a, 537-on, others-b/off       ****0101         VinE3       550-a, 537-on, others-b/off       ****0101         VinE3       550-a, 537-on, others-b/off       ****0101         VinE4       553-a, 537-on, others-b/off       ****0101         VinE4       553-a, 537-on, others-b/off       ****0101	)		V <sub>in</sub> s2	547-on,	****0010	(z) For each, measure the amplitude of V. ** which the mentation of all
VinE3       550-a       547-on, others-b/off       ****0101         VinE4       553-a       547-on, others-b/off       ****0100         VinE2       553-a       537-on, others-b/off       ****0110         VinE2       52-a       537-on, others-b/off       ****0110         VinE1       55-a       537-on, others-b/off       ****0110         VinE1       55-a       537-on, others-b/off       ****0111         Dynamic Range       Vin51       57A-a       537-on, others-b/off       ****0011         Valmenic Range       Vin51       57A-a       537-on, others-b/off       ****0010         VinS3       519A-a, 537-on, others-b/off       ****0010       ****0010         VinE3       550-a       537-on, others-b/off       ****0101         VinE3       550-a       537-on, others-b/off       ****0101         VinE3       550-a       537-on, others-b/off       ****0101         VinE4       553-a       537-on, others-b/off       ****0101		(Main)	V <sub>in</sub> sa	547-on,	****0001	
VinE4       5 <sub>3</sub> 3-a       5 <sub>47</sub> -on, others-b/off       ****0100         VinE2       5 <sub>2</sub> -a       5 <sub>3</sub> 7-on, others-b/off       ****0110         V Input       VinE1       5 <sub>5</sub> -a       5 <sub>3</sub> 7-on, others-b/off       ****0111         V Input       VinE1       5 <sub>5</sub> -a       5 <sub>3</sub> 7-on, others-b/off       ****0111         Dynamic Range       Vin51       5 <sub>7</sub> A-a       5 <sub>3</sub> 7-on, others-b/off       ****0011         Value       Vin52       5 <sub>13</sub> A-a, 5 <sub>3</sub> 7-on, others-b/off       ****0010         (Clamp Off)       Vin53       5 <sub>19</sub> A-a, 5 <sub>3</sub> 7-on, others-b/off       ****0010         VinE3       5 <sub>19</sub> A-a, 5 <sub>3</sub> 7-on, others-b/off       ****0010         VinE3       5 <sub>50</sub> -a, 5 <sub>3</sub> 7-on, others-b/off       ****0101         VinE4       5 <sub>53</sub> -a, 5 <sub>3</sub> 7-on, others-b/off       ****0101			VinE3	547-on,	****0101	
VinE2       S2-a       S37-on, others-b/off       DATA 3         V Input       VinE1       S2-a       S37-on, others-b/off       ****0110         Dynamic Range       VinS1       S5-a       S37-on, others-b/off       ****0111         Dynamic Range       VinS1       S7A-a       S37-on, others-b/off       ****0111         Volution       VinS1       S7A-a       S37-on, others-b/off       ****0010         VinS2       S13A-a, S37-on, others-b/off       ****0010         VinS3       S19A-a, S37-on, others-b/off       ****0010         VinE3       S50-a, S37-on, others-b/off       ****0101         VinE3       S50-a, S37-on, others-b/off       ****0101         VinE4       S53-a, S37-on, others-b/off       ****0101			V <sub>in</sub> E4	, S47-on,	****0100	
VinE2       S2-a       , S37-on, others-b/ off       ****0110         V Input       VinE1       S5-a       , S37-on, others-b/ off       ****0111         Dynamic Range       VinS1       S7A-a       , S37-on, others-b/ off       ****0011         Unamic Range       VinS1       S7A-a       , S37-on, others-b/ off       ****0011         Unamic Range       VinS2       S13A-a, S37-on, others-b/ off       ****0010         VinS3       S19A-a, S37-on, others-b/ off       ****0010         VinE3       S50-a, S37-on, others-b/ off       ****0101         VinE3       S50-a, S37-on, others-b/ off       ****0101         VinE4       S53-a, S37-on, others-b/ off       ****0101					DATA 3	
V Input       VinE1       55-a       537-on, others-b/off       ****0111         Dynamic Range       Vin51       57A-a       537-on, others-b/off       ****0011         Clamp Off)       Vin52       513A-a, 537-on, others-b/off       ****0010         (Clamp Off)       Vin52       513A-a, 537-on, others-b/off       ****0010         (Sub)       Vin53       519A-a, 537-on, others-b/off       ****0011         (Sub)       Vin63       550-a, 537-on, others-b/off       ****0101         VinE3       550-a, 537-on, others-b/off       ****0101         VinE4       553-a, 537-on, others-b/off       ****0101			VinEZ	, S37-on,	****0110	(1) Vi 16645 visitable amalituda (1) Vi
Dynamic Range         VinS1         57A-a         S37-on, others-b/off         ****0011           (Clamp Off)         VinS2         513A-a, 537-on, others-b/off         ****0010           (Sub)         VinS3         519A-a, 537-on, others-b/off         ****0011           VinE3         519A-a, 537-on, others-b/off         ****0011           VinE3         550-a, 537-on, others-b/off         ****0101           VinE3         550-a, 537-on, others-b/off         ****0101		V Input	VinE1	, S37-on,	****0111	(1) V1 IJKHZ, VARIADIE-AMPLITUGE INDUT, V1 – 011
(Clamp Off)         VinS2         S13A-a, S37-on, others-b/off         ****0010           (Sub)         VinS3         S19A-a, S37-on, others-b/off         ****0001           VinE3         S50-a, S37-on, others-b/off         ****0101           VinE3         S50-a, S37-on, others-b/off         ****0101           VinE4         S53-a, S37-on, others-b/off         ****0101	1-(4)	Dynamic Range	V <sub>in</sub> s1	537-on,	****0011	v3 = 0v. /2) For each morning the americants
Vin53 519A-a, 537-on, others-b/off ****0001 VinE3 550-a , 537-on, others-b/off ****0101 VinE4 553-a , 537-on, others-b/off ****0100	È	(Clamp Off)	V <sub>in</sub> s2	537-on,	****0010	(z) For each, measure the amplitude of W <sub>1</sub> = 4 = which the measure f
S50-a , S37-on, others-b / off ****0101 S53-a , S37-on, others-b / off ****0100		(Sub)	V <sub>in</sub> s3	537-on,	****0001	V at write the waveform on pin
S53-a , S37-on, others-b / off			V <sub>in</sub> E3	S50-a , S37-on, others-b / off	****0101	so is discorted.
			V <sub>in</sub> E4	S53-a , S37-on, others-b / off	****0100	

2000-03-03 19/46

				INTERSOUTING CONDITIONS (UNLESS UTHERWISE SPECIFIED, VCC=9V, Ia=25 $\pm$ 3°C)
Sw MODEYin51S9-a , others-b/offYc InputYin52S15-a, others-b/offYn53S21-a, others-b/offYin53S21-a, others-b/offDynamic RangeVin53S21-a, others-b/offVin53S22-a, others-b/offCin53S23-a, others-b/offCin53S23-a, others-b/offCin53S23-a, others-b/offCin53S23-a, others-b/offCin53S23-a, others-b/offCin53S21-a, others-b/offCin53S11-a, others-b/offCin53S21-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53<	ITEM	SW & VR MOI	Ш	
Yin51S9-aothers-b/offYin22S15-aothers-b/offYc InputYin33S21-aDynamic RangeYin53S21-aVinE3S50-aothers-b/offDynamic RangeVinE3S50-aVin51S17-aothers-b/offCin52S17-aothers-b/offCin53S23-aothers-b/offCin53S23-aothers-b/offCin53S23-aothers-b/offCin53S23-aothers-b/offCin53S17-aothers-b/offCin53S21-aothers-b/offCin53S21-aothers-b/offCin53S21-aothers-b/offCin53S21-aothers-b/offCin53S21-aothers-b/offCin53S21-aothers-b/offCin53S21-aothers-b/offCin53S21-aothers-b/offCin53S21-aothers-b/offCin53S21-a, others-b/offCin53S21-a, others-b/offCin53S21-a, others-b/offCin53S21-a, others-b/offCin53S21-a, others-b/offCin53S21-a, others-b/offCin53S21-a, others-b/offCin53S21-a, others-b/offCin53S21-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/off		SW MODE	DATA 2	MEASUREMENT METHOD
Yin52\$15-a, others-b/offYin53\$21-a, others-b/offDynamic RangeYin53\$21-a, others-b/off(Main)\$48-a, others-b/off\$11-a, others-b/off(Main)Cin51\$11-a, others-b/offCin52\$17-a, others-b/off\$17-a, others-b/offCin53\$23-a, others-b/off\$17-a, others-b/offCin53\$23-a, others-b/off\$17-a, others-b/offCin53\$23-a, others-b/off\$17-a, others-b/offYcTinputYin52\$15-a, others-b/offYcYin53\$21-a, others-b/off\$17-a, others-b/offCin1\$40-a, others-b/offYin2\$38-a, others-b/offDynamic RangeYin2\$38-a, others-b/off\$11-a, others-b/offSubinYin2\$31-a, others-b/off\$11-a, others-b/offDynamic RangeYin53\$21-a, others-b/off\$12-a, others-b/offSvideoYin53\$21-a, others-b/off\$12-a, others-b/offDynamic RangeYin53\$21-a, others-b/off\$12-a, others-b/offDynamic RangeYin53\$21-a, others-b/off\$12-a, others-b/offDynamic RangeYin53\$21-a	Y <sub>in</sub> S1	-	11111011	
Yin53S21-a, others-b/offYc InputYin1S48-a, others-b/offDynamic RangeVinE3S50-a, others-b/off(Main)CinS1S11-a, others-b/offCinS1S17-a, others-b/offCinS2S17-a, others-b/offCinS2S17-a, others-b/offCinS1S17-a, others-b/offCinS1S17-a, others-b/offCinS2S17-a, others-b/offCinS3S23-a, others-b/offYin52S15-a, others-b/offCinS1S11-a, others-b/offDynamic RangeVin2S38-a, others-b/offVin2S49-a, others-b/offCin51CinS1S11-a, others-b/offCinS1S11-a, others-b/offCinS1S11-a, others-b/offCinS1S11-a, others-b/offCinS1S11-a, others-b/offCinS1S11-a, others-b/offCinS1S11-a, others-b/offCinS1S11-a, others-b/offCinS2S12-a, others-b/offCinS1S11-a, others-b/offCinS1S11-a, others-b/offCinS1S11-a, others-b/offCinS1S11-a, others-b/offCinS1S11-a, others-b/offCinS1S12-a, others-b/offCinS1S12-a, others-b/offCinS1S12-a, others-b/offCinS1S12-a, others-b/offCinS1S12-a, others-b/offCinS1S12-a, others-b/offCinS1S12-a, others-b/offCinS1S12-a, others-b/offCinS1S12-a, others-b/off	Y <sub>in</sub> s2	S <sub>15</sub> -a, others-b/off	11111010	
YC InputYin1548-a, others-b / offDynamic RangeVinE3550-a, others-b / offCinS1511-a, others-b / off517-a, others-b / offCinS2517-a, others-b / off517-a, others-b / offCinS3523-a, others-b / off517-a, others-b / offY In5159-a, others-b / off711-a, others-b / offY In52515-a, others-b / off711-a, others-b / offY In52515-a, others-b / off711-a, others-b / offDynamic RangeYin2538-a, others-b / offYin2538-a, others-b / off711-a, others-b / offCin51511-a, others-b / off711-a, others-b / offCin51511-a, others-b / off711-a, others-b / offCin52517-a, others-b / off711-a, others-b / offDynamic RangeYin5159-a, others-b / offCin52517-a, others-b / off711-a, others-b / offDynamic RangeYin5159-a, others-b / offCin52517-a, others-b / off71-a, others-b / offDynamic RangeYin52517-a, others-b / offCin52517-a, others-b / off71-a, others-b / offDynamic RangeYin52517-a, others-b / offDynamic RangeYin53521-a, others-b / offDynamic RangeYin53521-a, others-b / offCin53521-a, others-b / off71-a, others-b / offCin53521-a, others-b / off71-a, others-b / offCin53521-a, others-b / off71-a, others-b / offCin5351-a, others-b / off<	Y <sub>in</sub> S3	S21-a, others-b / off	11111001	iveasure the amplitude in the same
Dynamic RangeVinE3550-a, others-b/off(Main)CinS1511-a, others-b/off(Main)CinS2517-a, others-b/off(Main)CinS3523-a, others-b/offCinS3523-a, others-b/off517-a, others-b/offY in52515-a, others-b/offYin52515-a, others-b/offY in52515-a, others-b/offYin53521-a, others-b/offY in52517-a, others-b/offYin53521-a, others-b/offY in53521-a, others-b/offYin53523-a, others-b/offY in53517-a, others-b/offCin51511-a, others-b/offY in53523-a, others-b/offCin52530-a, others-b/offY in53523-a, others-b/offCin53523-a, others-b/offY in53523-a, others-b/offCin53521-a, others-b/offDynamic RangeYin53521-a, others-b/offOffDynamic RangeYin53511-a, others-b/offOff<		S48-a, others-b / off	0101 * * * *	way using pin 44.
(Main)CinS1S11-a, others-b / offCinS2S17-a, others-b / offCinS3S23-a, others-b / offCinS1S29-a, others-b / offYinS2S15-a, others-b / offYinS3S21-a, others-b / offYin2S38-a, others-b / offCinS1S11-a, others-b / offCinS1S11-a, others-b / offCinS1S11-a, others-b / offCinS3S23-a, others-b / offCinS1S11-a, others-b / offCinS3S21-a, others-b / offCinS1S11-a, others-b / offCinS1S11-a, others-b / offCinS1S11-a, others-b / offCinS3S23-a, others-b / offCinS1S11-a, others-b / offCinS3S23-a, others-b / offCinS3S23-a, others-b / offCinS3S23-a, others-b / offCinS1S11-a, others-b / offCinS3S21-a, others-b / offCinS1S11-a, others-b / offCinS3S21-a, others-b / offCinS3S21-a, others-b / offCinS3S21-a, others-b / offCinS1S11-a, others-b / offCinS1S11-a, others-b / offCinS1S11-a, others-b / offCinS2S12-a, others-b / offCinS1S11-a, others-b / offCinS1S11-a, others-b / offCi		S50-a, others-b/off	0100****	
CinS2S17-a, others-b/offCin1S40-a, others-b/offCin1S40-a, others-b/offYin52S15-a, others-b/offYin52S15-a, others-b/offYin53S21-a, others-b/offYin53S21-a, others-b/offYin53S21-a, others-b/offYin53S21-a, others-b/offYin53S21-a, others-b/offYin53S21-a, others-b/offYin53S21-a, others-b/offYin53S23-a, others-b/offCin51S11-a, others-b/offCin53S23-a, others-b/offCin53S23-a, others-b/offCin53S21-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53S21-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin51S11-a, others-b/off	CinS1		11111011	
CinS3523-a, others-b/offCin1540-a, others-b/offVinS159-a, others-b/offYinS2515-a, others-b/offVinS3521-a, others-b/offDynamic RangeVin22S38-a, others-b/offVin2S38-a, others-b/offVin2S11-a, others-b/offVin2S38-a, others-b/offVin2S38-a, others-b/offVin2S38-a, others-b/offVin2S38-a, others-b/offVin2S11-a, others-b/offCin53S23-a, others-b/offCin53S23-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53S11-a, others-b/offCin53S21-a, others-b/offCin53S11-a, others-b/offCin53S21-a, others-b/offCin53S11-a, others-b/offCin53S11-a	C <sub>in</sub> s2	S17-a, others-b/off	11111010	Measure the amplitude in the same
Cin1S40-a, others-b/offY in51S9-a, others-b/offY in52S15-a, others-b/offY in53S21-a, others-b/offDynamic RangeYin22S15-a, others-b/offS1-a, others-b/offDynamic RangeYin2S15-a, others-b/offS1-a, others-b/offS10S1-a, others-b/offS10S1-a, others-b/offS11-a, others-b/offS1-a, others-b/offS11-a, others-b/offS17-a, others-b/offCin22S17-a, others-b/offDynamic RangeYin53S23-a, others-b/offS17-a, others-b/offCin23S21-a, others-b/offDynamic RangeYin53S17-a, others-b/offS17-a, others-b/offCin23S21-a, others-b/offDynamic RangeYin53S21-a, others-b/offS17-a, others-b/offCin51S17-a, others-b/offCin53S23-a, others-b/offDynamic RangeYin53S21-a, others-b/offS15-a, others-b/offS VideoYin53S VideoYin53 <td>C<sub>in</sub>S3</td> <td>S23-a, others-b / off</td> <td>11111001</td> <td>way using pin 42.</td>	C <sub>in</sub> S3	S23-a, others-b / off	11111001	way using pin 42.
Yin51S9-aothers-b/offYYin52S15-aothers-b/offYNoamic RangeYin23S21-aothers-b/offDynamic RangeYin2S38-aothers-b/offDynamic RangeYin2S38-aothers-b/off(Sub)Cin51S11-aothers-b/off(Sub)Cin51S11-aothers-b/off(Sub)Cin51S11-aothers-b/off(Sub)Cin51S11-aothers-b/off(Sub)Cin52S17-aothers-b/off(Sub)Cin53S23-aothers-b/offS VideoYin51S9-aothers-b/offDynamic RangeYin53S21-aothers-b/offCin53S21-aothers-b/offS11-aDynamic RangeYin51S9-aothers-b/offCin53S21-aothers-b/offS11-aDynamic RangeYin51S9-aothers-b/offS VideoYin51S9-aothers-b/offS VideoYin52S15-aothers-b/offS VideoYin53S21-aothers-b/offDynamic RangeYin53S21-aothers-b/offS VideoYin53S21-aothers-b/offDynamic RangeYin53S15-aothers-b/offDynamic RangeYin53S21-aothers-b/offDynamic RangeYin53S15-aothers-b/offDynamic RangeYin53S15-aothers-b/offDynamic RangeYin53S11-aothers-b/off <tr<< td=""><td>Cin 1</td><td>S40-a, others-b / off</td><td>0101****</td><td></td></tr<<>	Cin 1	S40-a, others-b / off	0101****	
Yin51S9-aothers-b / offYC InputYin52515-a, others-b / offYC InputYin23521-a, others-b / offDynamic RangeYin2538-a, others-b / offVin2538-a, others-b / off533-a, others-b / offSub)Cin51511-a, others-b / offCin51511-a, others-b / offCin53523-a, others-b / offCin53523-a, others-b / offCin53523-a, others-b / offDynamic RangeYin51Synamic RangeYin53Dynamic RangeYin53SoldeoYin53SoldeoYin53SoldeoYin53SoldeoYin51SoldeoYin51SoldeoYin53Soldeo </td <td></td> <td></td> <td>DATA 3</td> <td></td>			DATA 3	
YinS2515-a, others-b / offYC InputYinS3521-a, others-b / offDynamic RangeYin2538-a, others-b / offSub)Cin51511-a, others-b / offSub)Cin51511-a, others-b / offCin51511-a, others-b / offCin53SubCin53523-a, others-b / offCin53S23-a, others-b / offCin53S23-a, others-b / offCin53S23-a, others-b / offDynamic RangeYin51SylaeoYin51SylaeoYin52StraeoYin53Subonamic RangeYin53Subonamic RangeYin53Subonamic RangeYin53Subonamic RangeYin53Subonamic RangeYin51Subonamic RangeYin53Subonamic RangeYin53Subonamic RangeYin51Subonamic RangeYin51Subonamic RangeYin53Subonamic RangeYin53	Y <sub>in</sub> S1	Sg-a , others-b / off	11111011	
YC InputYin53S21-a, others-b/ offDynamic RangeYin2538-a, others-b/ offDynamic RangeVinE4533-a, others-b/ off(Sub)Cin51511-a, others-b/ off(Sub)Cin51511-a, others-b/ offCin52517-a, others-b/ off530-a, others-b/ offSvideoYin5159-a, others-b/ offDynamic RangeYin5159-a, others-b/ offSvideoYin52515-a, others-b/ offDynamic RangeYin53521-a, others-b/ offCin53521-a, others-b/ off61/53Dynamic RangeYin53511-a, others-b/ offCin51511-a, others-b/ off61/53SvideoYin5159-a, others-b/ offCin52513-a, others-b/ off61/53Dynamic RangeYin5159-a, others-b/ offSvideoYin5159-a, others-b/ offSvideoYin53521-a, others-b/ offSvideoYin53521-a, others-b/ offSvideoYin53521-a, others-b/ offSvideoYin5251-a, others-b/ offSvideoYin53521-a, others-b/ offSvideoYin53521-a, others-b/ offSvideoYin53521-a, others-b/ offSvideoYin5351-a, others-b/ offSvideoYin5351-a, others-b/ offSvideoYin5351-a, others-b/ offSvideoYin5351-a, others-b/ offSvideoYin5351-a, others-b/ offSvideoYin5351-a, others-b/ o	Y <sub>in</sub> s2	S15-a, others-b / off	11111010	Measure the amplitude in the same
Dynamic RangeYin2538-a, others-b / offDynamic RangeVinE4533-a, others-b / off(Sub)CinS1511-a, others-b / off(Sub)CinS2517-a, others-b / offCinS2530-a, others-b / off530-a, others-b / offS videoYinS159-a , others-b / offDynamic RangeYinS2515-a, others-b / offDynamic RangeYinS2515-a, others-b / offDynamic RangeYinS3521-a, others-b / offDynamic RangeYinS3521-a, others-b / offCinS1511-a, others-b / off517-a, others-b / offDynamic RangeYinS159-a , others-b / offDynamic RangeYinS3521-a, others-b / offCinS2517-a, others-b / off517-a, others-b / offS videoYinS159-a , others-b / offS videoYinS2515-a, others-b / offS videoYinS3521-a, others-b / offS videoYinS3521-a, others-b / offSubinCinS1511-a, others-b / offSubinCinS1511-a, others-b / offSubinCinS1511-a, others-b / offSubinCinS1511-a, others-b / offSubinCinS2511-a, others-b / off	Y <sub>in</sub> s3	S21-a, others-b/off	11111001	way using pin 34.
VinE4533-a, others-b / off(Sub)CinS1S11-a, others-b / off(Sub)CinS2S17-a, others-b / offCinS2S17-a, others-b / offS23-a, others-b / offCinS3S23-a, others-b / offCinS3S23-a, others-b / offS VideoYinS1S9-a, others-b / offS15-a, others-b / offDynamic RangeYinS3S21-a, others-b / offMain)CinS1S11-a, others-b / offCinS2S17-a, others-b / offCinS3S21-a, others-b / offCinS2S17-a, others-b / offCinS2S17-a, others-b / offCinS3S23-a, others-b / offS VideoYinS3S VideoYinS3<		S38-a, others-b / off	0101****	-
CinS1511-a, others-b / offCinS2517-a, others-b / offCinS3523-a, others-b / offCinS3523-a, others-b / offS VideoYinS1S VideoYinS2S VideoYinS3S VideoYinS3 <td>1</td> <td>S53-a, others-b / off</td> <td>0100****</td> <td></td>	1	S53-a, others-b / off	0100****	
CinS2517-a, others-b / offCinS3523-a, others-b / offSideoSidea, others-b / offS VideoYinS1S VideoYinS2S VideoYinS3S VideoYinS3S VideoYinS3S VideoYinS3S VideoYinS3S VideoYinS3S VideoYinS1S VideoSinS2S VideoYinS1S VideoSinS2S VideoYinS1S VideoYinS3S VideoYinS3 <td< td=""><td>C<sub>in</sub>S1</td><td>S11-a, others-b / off</td><td>11111011</td><td></td></td<>	C <sub>in</sub> S1	S11-a, others-b / off	11111011	
CinS3523-a, others-b / offS videoCin2530-a, others-b / offS videoYinS2530-a, others-b / offDynamic RangeYinS2515-a, others-b / offDynamic RangeYinS3521-a, others-b / offCinS1511-a, others-b / off517-a, others-b / offCinS2517-a, others-b / off517-a, others-b / offCinS3523-a, others-b / off517-a, others-b / offS videoYinS159-a , others-b / offS videoYinS159-a , others-b / offDynamic RangeYinS2515-a, others-b / offDynamic RangeYinS3521-a, others-b / offSubbCinS1511-a, others-b / offSubbCinS1511-a, others-b / offCinS2S21-a, others-b / off	C <sub>in</sub> S2	S17-a, others-b/off	11111010	Measure the amplitude in the same
Cin2530-a, others-b / offS videoYinS159-a, others-b / offS videoYinS2515-a, others-b / off515-a, others-b / offDynamic RangeYinS3521-a, others-b / off517-a, others-b / off(Main)CinS1511-a, others-b / off517-a, others-b / off(Main)CinS2517-a, others-b / off515-a, others-b / offS videoYinS159-a , others-b / off515-a, others-b / offS videoYinS2515-a, others-b / off511-a, others-b / offS videoYinS3521-a, others-b / off511-a, others-b / offS videoYinS3521-a, others-b / off511-a, others-b / offSub)CinS1S11-a, others-b / off511-a, others-b / offSub)CinS1S11-a, others-b / off511-a, others-b / off	CinS3	S23-a, others-b / off	11111001	way using pin 32.
S VideoYinS1S9-av others-b / offS VideoYinS2S15-a, others-b / offDynamic RangeYinS3S21-a, others-b / offCinS1S11-a, others-b / off(Main)CinS2S17-a, others-b / offCinS2S17-a, others-b / offCinS3S23-a, others-b / offS VideoYinS1S9-a , others-b / offS VideoYinS1S9-a , others-b / offDynamic RangeYinS2S15-a, others-b / offSub)CinS1S11-a, others-b / offCinS1S11-a, others-b / offCinS2S11-a, others-b / offCinS2S11-a, others-b / off	C <sub>in</sub> 2	S30-a, others-b / off	0101****	-
Y inS1S9-aothers-b / offS VideoYinS2S15-a, others-b / offDynamic RangeYinS3S21-a, others-b / offDynamic RangeYinS3S21-a, others-b / offCinS1S11-a, others-b / offS17-a, others-b / offCinS3S23-a, others-b / offS23-a, others-b / offS VideoYinS1S9-aothers-b / offS VideoYinS1S9-aothers-b / offDynamic RangeYinS3S21-a, others-b / offS VideoYinS1S11-a, others-b / offCinS1S11-a, others-b / offSub)CinS1S11-a, others-b / offCinS1S11-a, others-b / offCinS1S11-a, others-b / offCinS2S11-a, others-b / offCinS2S11-a, others-b / off			DATA 2	
S VideoYinS2515-a, others-b / offDynamic RangeYinS3521-a, others-b / offDynamic RangeYinS3521-a, others-b / off(Main)CinS1511-a, others-b / offCinS2517-a, others-b / offCinS3523-a, others-b / offS VideoYinS159-a , others-b / offS VideoYinS3521-a, others-b / offDynamic RangeYinS3521-a, others-b / offCinS1511-a, others-b / offCinS1511-a, others-b / offCinS1511-a, others-b / offCinS1511-a, others-b / offCinS2541-a, others-b / off		S9-a , others-b / off	11111011	
Dynamic RangeYinS3\$21-a, others-b / off(Main)CinS1\$11-a, others-b / off(Main)CinS2\$17-a, others-b / offCinS2\$17-a, others-b / offCinS3\$23-a, others-b / offCinS1\$23-a, others-b / offS VideoYinS1S VideoYinS3Dynamic RangeYinS3Sub)CinS1Sub)CinS1Sub)CinS1CinS2\$11-a, others-b / offCinS2\$11-a, others-b / offCinS2\$11-a, others-b / off		S15-a, others-b/off	11111010	
(Main)CinS1511-a, others-b / offGinS2517-a, others-b / offCinS3523-a, others-b / offCinS3523-a, others-b / offS VideoYinS1S VideoYinS2S VideoYinS3S Video </td <td></td> <td>S21-a, others-b / off</td> <td>11111001</td> <td>ivieasure the amplitude in the same</td>		S21-a, others-b / off	11111001	ivieasure the amplitude in the same
CinS2 517-a, others-b/off CinS3 523-a, others-b/off CinS3 523-a, others-b/off YinS1 59-a, others-b/off Dynamic Range YinS3 521-a, others-b/off (Sub) CinS1 511-a, others-b/off CinS2 543-a others-b/off	C <sub>in</sub> S1	S11-a, others-b / off	11111011	way using pin 46.
CinS3S23-a, others-b/offS VideoYinS1S9-aS VideoYinS2S15-a, others-b/offDynamic RangeYinS3S21-a, others-b/off(Sub)CinS1S11-a, others-b/offCinS2S43-a others-b/off	C <sub>in</sub> s2	S17-a, others-b/off	11111010	
YinS1 S9-a , others-b / off S Video YinS2 S15-a, others-b / off Dynamic Range YinS3 S21-a, others-b / off (Sub) CinS1 S11-a, others-b / off CinS2 S43-a others-b / off	C <sub>in</sub> S3	S23-a, others-b/off	11111001	
YinS1 Sg-a , others-b / off S Video YinS2 S15-a, others-b / off Dynamic Range YinS3 S21-a, others-b / off (Sub) CinS2 S11-a, others-b / off CinS2 S13-a others-b / off			DATA 3	
S Video Y <sub>in</sub> S2 S <sub>15</sub> -a, others-b/off Dynamic Range Y <sub>in</sub> S3 S <sub>21-a</sub> , others-b/off (Sub) CinS1 S <sub>11-a</sub> , others-b/off CinS2 S <sub>13-a</sub> others-b/off	Y <sub>in</sub> s1	Sg-a , others-b / off	11111011	
Dynamic Range Y <sub>in</sub> S3 S21-a, others-b/off (Sub) CinS1 S11-a, others-b/off CinS2 S43-a others-b/off		S15-a, others-b / off	11111010	-
CinS1 S11-a, others-b / off CinS2 S13-a others-b / off		S21-a, others-b/off	11111001	Neasure the amplitude in the same
Saz-a others-h / off	CinS1	S11-a, others-b/off	11111011	way using pin 36.
	CinS2	S17-a, others-b/off	11111010	
CinS3 S23-a, others-b / off	C <sub>in</sub> s3	S23-a, others-b / off	11111001	

NOTE         TEM         SW MODE         DATA 2         MEASUREMENT METHOD           3(3)         S Video         Yin3         Sy1-on, others-b/off         11111011         MEASUREMENT METHOD           3(3)         Clamp Off)         Yin3         Sy1-on, others-b/off         11111011         Measure the amplitude in the same           3(3)         Clamp Off)         Cin3         Sy1-on, others-b/off         11111010         Measure the amplitude in the same           3(4)         Clamp Off)         Cin3         Sy1-on, others-b/off         11111010         Measure the amplitude in the same           3(4)         Dynamic Range         Yin3         Sy1-on, others-b/off         11111010         Measure the amplitude in the same           3(4)         Dynamic Range         Yin3         Sy1-on, others-b/off         11111010         Measure the amplitude in the same           3(4)         Dynamic Range         Yin3         Sy1-on, others-b/off         11111010         Measure the amplitude in the same           3(4)         Dynamic Range         Yin3         Sy1-on, others-b/off         11111010         Measure the amplitude in the same           3(50b)         Cin33         Sy1-a, Sy1-on, others-b/off         11111010         Measure the amplitude in the same           3(4)         Dynamic Range				MEAS	URING CONDITIONS (UI	NLESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC} = 9V$ , Ta = 25 $\pm 3^{\circ}$ C)
SW MODE         DATA 2           Yin51         59-a         547-on, others-b/off         11111011           Yin52         515-a         547-on, others-b/off         11111011           Yin53         517-a         547-on, others-b/off         11111011           Yin53         521-a         547-on, others-b/off         11111011           Yin53         521-a         547-on, others-b/off         11111011           Cin51         517-a         547-on, others-b/off         11111011           Cin53         523-a         537-on, others-b/off         11111011           Yin53         517-a         537-on, others-b/off         11111011           Yin53         521-a         others-b/off         11111001           Yin53         521-a         others-b/off         11111001           Yin51         537-on, others-b/off         1111001           Yin53         537-on, others-b/off         1111001           Yin53         537-a, others-b/off         10100010	NOT				SW & VR MODE		
Yin51         S9-a         S47-on, others-b/off         11111011           Yin52         S15-a         S47-on, others-b/off         11111011           Yin53         S21-a         S47-on, others-b/off         11111011           Yin53         S21-a         S47-on, others-b/off         11111011           Cin51         S17-a         S47-on, others-b/off         11111011           Cin52         S17-a         S37-on, others-b/off         11111011           Cin53         S23-a         S37-on, others-b/off         11111011           Yin51         S9-a         S37-on, others-b/off         11111011           Yin52         S15-a         S37-on, others-b/off         11111011           Yin53         S21-a         S37-on, others-b/off         11111011           Yin53         S21-a         S37-on, others-b/off         11111011           Yin53         S17-a         others-b/off         11111011           Cin53         S21-a         S37-on, others-b/off         11111010           Yin51         S14-a, others-b/off         11111010           Yin53         S14-a, others-b/off         10100110           Yin53         S21-a         others-b/off         10100010           Yin53         S1					SW MODE	DATA 2	
YinS2         515-a         S47-on, others-b/off         1111101           YinS3         521-a         S47-on, others-b/off         1111101           CinS1         511-a         S47-on, others-b/off         1111101           CinS2         537-a         S47-on, others-b/off         1111101           CinS2         537-a         S47-on, others-b/off         1111101           CinS3         523-a         S37-on, others-b/off         1111101           YinS1         59-a         S37-on, others-b/off         1111101           YinS2         515-a         S37-on, others-b/off         1111101           YinS2         515-a         S37-on, others-b/off         1111101           YinS2         517-a         S37-on, others-b/off         1111101           YinS2         517-a         S37-on, others-b/off         1111101           YinS3         523-a         S37-on, others-b/off         1111101           YinS1         57-a         S37-on, others-b/off         1111001           YinS1         57-a         S37-on, others-b/off         10100011           YinS1         57-a         others-b/off         10100011           YinS2         513-a, others-b/off         10100010         Yin100      <			Y <sub>in</sub> s1	59-a	, S47-on, others-b / off	11111011	
YinS3         521-a         547-on, others-b/off         1111101           GinS1         511-a         547-on, others-b/off         1111101           GinS2         517-a         547-on, others-b/off         1111101           GinS3         523-a         547-on, others-b/off         1111101           GinS3         523-a         547-on, others-b/off         1111101           CinS3         523-a         537-on, others-b/off         1111101           YinS1         59-a         537-on, others-b/off         1111101           YinS3         521-a         537-on, others-b/off         1111101           YinS1         515-a         537-on, others-b/off         1111101           YinS3         521-a         537-on, others-b/off         1111101           YinS3         523-a         537-on, others-b/off         1111101           CinS2         537-on, others-b/off         1111101           YinS1         57A-a         others-b/off         10100110           YinS1         57A-a         others-b/off         10100010           YinS2         513A-a, others-b/off         10100010           YinS3         519A-a, others-b/off         10100010           YinS3         519A-a, others-b/off		S Video	Y <sub>in</sub> s2	S15-a	, S47-on, others-b / off	11111010	
CinS1       511-a       547-on, others-b/off       11111010         CinS2       517-a       547-on, others-b/off       11111010         CinS3       523-a       547-on, others-b/off       11111010         CinS3       523-a       537-on, others-b/off       1111101         CinS3       523-a       537-on, others-b/off       1111101         YinS1       59-a       537-on, others-b/off       1111101         YinS3       521-a       537-on, others-b/off       1111101         YinS3       523-a       537-on, others-b/off       1111101         CinS1       511-a       537-on, others-b/off       1111101         CinS1       511-a       537-on, others-b/off       1111101         CinS2       537-a       others-b/off       1111101         CinS3       523-a       537-on, others-b/off       1111101         CinS2       537-a       others-b/off       10100110         VinE1       57A-a       others-b/off       10100010         VinS1       57A-a       others-b/off       10100010         VinS3       519A-a, others-b/off       10100010       10100100         VinE4       553-a       others-b/off       10100010         VinS1	3_(2)	Dynamic Range	Y <sub>in</sub> sa	521-a	, S47-on, others-b / off	11111001	Measure the amplitude in the same
CinS2         517-a         547-on, others-b/off         11111010           CinS3         523-a         547-on, others-b/off         11111001           YinS1         59-a         537-on, others-b/off         1111101           YinS2         515-a         537-on, others-b/off         1111101           YinS3         521-a         537-on, others-b/off         1111101           YinS3         521-a         537-on, others-b/off         1111101           YinS3         521-a         537-on, others-b/off         1111101           CinS2         537-on, others-b/off         1111101           CinS3         523-a         537-on, others-b/off         1111101           CinS3         523-a         others-b/off         1111101           CinS3         523-a         others-b/off         1010011           VinE1         55-a         others-b/off         1010010           VinS2         513A-a, others-b/off         1010010         1010010           VinS3         519A-a, others-b/off         1010010         1010010           VinS4         550-a         others-b/off         1010010           VinS1         570-a         others-b/off         10100110           VinS1         550-a	Ì		C <sub>in</sub> s1	511-a	, S47-on, others-b / off	11111011	way using pin 46.
CinS3       523-a       547-on, others-b/off       11111001         YinS1       59-a       537-on, others-b/off       1111101         YinS2       515-a       537-on, others-b/off       1111101         YinS2       515-a       537-on, others-b/off       1111101         YinS2       517-a       537-on, others-b/off       1111101         YinS3       521-a       537-on, others-b/off       1111101         CinS1       511-a       537-on, others-b/off       1111101         CinS2       577-a       537-on, others-b/off       11111001         CinS3       523-a       others-b/off       11111001         CinS3       523-a       others-b/off       1111001         VinE1       55-a       others-b/off       10100110         VinS1       57A-a, others-b/off       10100101       10100101         VinS2       513A-a, others-b/off       10100100       10100100         VinS2       513A-a, others-b/off       10100110       10100100         VinS3       519A-a, others-b/off       10100110       10100110         VinS3       519A-a, others-b/off       10100110       10100110         VinS1       55-a       others-b/off       101000110		(Main)	C <sub>in</sub> sz	S17-a	, S47-on, others-b / off	11111010	
Yin51         S9-a         S37-on, others-b/off         I111101           Yin52         S15-a         S37-on, others-b/off         1111101           Yin52         S15-a         S37-on, others-b/off         1111101           Yin53         S21-a         S37-on, others-b/off         1111101           Yin53         S21-a         S37-on, others-b/off         1111101           Cin51         S11-a         S37-on, others-b/off         1111101           Cin52         S17-a         S37-on, others-b/off         1111101           Cin53         S23-a         others-b/off         11111001           Cin53         S23-a         others-b/off         11111001           VinE1         S5-a         others-b/off         1010011           Vin51         S7A-a         others-b/off         10100011           Vin52         S13A-a, others-b/off         10100011           Vin53         S19A-a, others-b/off         10100101           Vin52         S13A-a, others-b/off         10100101           Vin53         S50-a         others-b/off         10100110           Vin53         S50-a         others-b/off         10100011           Vin64         S23-a         others-b/off         10100010 </td <td></td> <td></td> <td>C<sub>in</sub>S3</td> <td>5<sub>23</sub>-a</td> <td>, S47-on, others-b / off</td> <td>11111001</td> <td></td>			C <sub>in</sub> S3	5 <sub>23</sub> -a	, S47-on, others-b / off	11111001	
YinS1         S9-a         S37-on, others-b/off         11111010           YinS2         S15-a         S37-on, others-b/off         11111010           YinS3         S21-a         S37-on, others-b/off         11111001           YinS3         S21-a         S37-on, others-b/off         11111001           YinS3         S21-a         S37-on, others-b/off         11111001           CinS1         S11-a         S37-on, others-b/off         11111001           CinS2         S17-a         S37-on, others-b/off         11111001           CinS3         S23-a         S37-on, others-b/off         1111001           VinE1         S2-a         others-b/off         10100110           VinE1         S5-a         others-b/off         10100110           VinS1         S7A-a, others-b/off         10100010           VinS2         S13A-a, others-b/off         10100010           VinS2         S13A-a, others-b/off         10100010           VinE3         S50-a         others-b/off         10100010           VinE3         S50-a         others-b/off         10100100           VinE3         S50-a         others-b/off         10100110           VinE3         S53-a         others-b/off         <						DATA 3	
YinS2         S15-a         S37-on, others-b/off         11111010           YinS3         521-a         537-on, others-b/off         11111011           CinS1         511-a         537-on, others-b/off         11111011           CinS1         517-a         537-on, others-b/off         11111011           CinS2         517-a         537-on, others-b/off         11111011           CinS2         517-a         537-on, others-b/off         11111001           CinS2         523-a         cothers-b/off         11111001           VinE1         523-a         cothers-b/off         10100110           VinE1         57-a         others-b/off         10100110           VinS1         57A-a         others-b/off         10100101           VinS1         57A-a         others-b/off         10100101           VinS3         519A-a         others-b/off         10100101           VinE3         550-a         others-b/off         10100101           VinE4         553-a         others-b/off         10100101           VinE4         553-a         others-b/off         10100101           VinE3         550-a         others-b/off         10100111           Vin51         57A-a		s Video	Y <sub>in</sub> S1	Sg-a	, S37-on, others-b / off	11111011	
YinS3       521-a       537-on, others-b/off       11111001         CinS1       511-a       537-on, others-b/off       11111001         CinS2       517-a       537-on, others-b/off       11111001         CinS3       523-a       537-on, others-b/off       11111001         CinS3       523-a       537-on, others-b/off       11111001         CinS3       523-a       537-on, others-b/off       10100110         VinE1       55-a       others-b/off       10100011         VinS1       57A-a       others-b/off       10100010         VinS3       519A-a, others-b/off       10100010         VinS3       519A-a, others-b/off       10100010         VinS3       519A-a, others-b/off       10100010         VinS3       553-a       others-b/off       10100010         VinE2       52-a       others-b/off       10100010         VinE3       553-a       others-b/off       10100010         VinE3       553-a       others-b/off       10100010         VinE3       553-a       others-b/off       10100010         VinE3       553-a       others-b/off       10100010         VinE3       513A-a, others-b/off       10100010       101000		Dynamic Bando	Y <sub>in</sub> s2	S15-a	, S37-on, others-b / off	11111010	
CinS1       511-a       537-on, others-b/off       11111011         CinS2       517-a       537-on, others-b/off       11111010         CinS2       517-a       537-on, others-b/off       11111010         CinS2       523-a       537-on, others-b/off       11111010         CinS2       523-a       537-on, others-b/off       10100110         VinE1       55-a       others-b/off       10100011         VinS1       57A-a       others-b/off       10100010         VinS3       519A-a, others-b/off       10100010         VinS3       519A-a, others-b/off       10100010         VinS3       519A-a, others-b/off       10100010         VinS3       519A-a, others-b/off       10100010         VinS3       550-a       others-b/off       10100010         VinE1       55-a       others-b/off       10100010         VinE1       55-a       others-b/off       10100010         VinS1       57-a       others-b/off       10100010         VinE2       52-a       others-b/off       10100010         VinE1       55-a       others-b/off       10100010         VinS2       513A-a, others-b/off       10100010         VinS3	3-(4)	(Clamp Off)	Y <sub>in</sub> sa	521-a	, S37-on, others-b / off	11111001	Ivieasure the amplitude in the same
CinS2       517-a       537-on, others-b/off       11111010         CinS3       523-a       537-on, others-b/off       11111010         CinS3       523-a       537-on, others-b/off       11111010         VinE2       52-a       others-b/off       10100110         VinE1       55-a       others-b/off       10100111         Vin51       57A-a       others-b/off       10100011         Vin51       57A-a       others-b/off       10100010         Vin53       519A-a       others-b/off       10100010         Vin53       519A-a       others-b/off       10100010         Vin53       519A-a       others-b/off       10100010         Vin53       519A-a       others-b/off       10100010         Vin53       550-a       others-b/off       10100010         Vin64       553-a       others-b/off       10100010         Vin61       55-a       others-b/off       10100010         Vin61       55-a       others-b/off       10100010         Vin52       513A-a, others-b/off       10100010         Vin53       513A-a, others-b/off       10100010         Vin53       513A-a, others-b/off       10100010			C <sub>in</sub> s1	511-a	, S37-on, others-b / off	11111011	way using pin 36.
CinS3         523-a         537-on, others-b/off         11111001           VinE2         52-a         , others-b/off         10100110           VinE1         55-a         , others-b/off         10100111           Vin51         57-a         , others-b/off         101000111           Vin51         57-a         , others-b/off         101000111           Vin52         513A-a, others-b/off         101000101           Vin53         519A-a, others-b/off         101000101           Vin53         519A-a, others-b/off         101000101           Vin53         519A-a, others-b/off         10100101           Vin63         553-a         , others-b/off         10100101           Vin64         553-a         , others-b/off         10100101           Vin61         553-a         , others-b/off         10100110           Vin61         553-a         , others-b/off         10100110           Vin61         553-a         , others-b/off         10100110           Vin61         553-a         , others-b/off         10100010           Vin52         513A-a, others-b/off         10100010         10100010           Vin53         519A-a, others-b/off         10100010         10100010 </td <td></td> <td></td> <td>C<sub>in</sub>sz</td> <td>517-a</td> <td>, S37-on, others-b / off</td> <td>11111010</td> <td></td>			C <sub>in</sub> sz	517-a	, S37-on, others-b / off	11111010	
VinE2       S2-a       , others-b / off       DATA 2         VinE1       S5-a       , others-b / off       10100110         Vin51       S7A-a       , others-b / off       10100011         Vin51       S7A-a       , others-b / off       10100011         Vin52       S13A-a, others-b / off       10100010         Vin53       S19A-a, others-b / off       10100010         Vin53       S50-a, others-b / off       10100101         Vin53       S50-a, others-b / off       10100101         Vin53       S53-a, others-b / off       10100101         Vin64       S53-a, others-b / off       10100101         Vin61       S53-a, others-b / off       10100110         Vin63       S19A-a, others-b / off       10100010         Vin53       S50-a ,			C <sub>in</sub> S3	523-a	, S37-on, others-b/off	11111001	
VinE2       S2-a       others-b / off       10100110         VinE1       S5-a       others-b / off       10100011         VinS1       S7A-a       others-b / off       10100011         VinS2       S13A-a       others-b / off       10100010         VinS3       S19A-a       others-b / off       10100010         VinS3       S19A-a       others-b / off       10100010         VinS3       S50-a       others-b / off       10100101         VinE3       S50-a       others-b / off       10100101         VinE4       S53-a       others-b / off       10100110         VinE4       S53-a       others-b / off       10100110         VinE1       S5-a       others-b / off       10100110         VinE1       S5-a       others-b / off       10100110         VinS1       S7A-a       others-b / off       10100011         VinS2       S13A-a, others-b / off       10100011       VinS0010         VinS3       S19A-a, others-b / off       10100010       VinS0010         VinS3       S19A-a, others-b / off       10100010       VinS0010         VinS3       S19A-a, others-b / off       10100010       VinS0010         VinS3						DATA 2	
VinE1       S5-a       others-b/off       10100011         VinS1       57A-a       others-b/off       10100011         VinS1       57A-a       others-b/off       10100010         VinS3       519A-a       others-b/off       10100010         VinS3       519A-a       others-b/off       10100010         VinE3       550-a       others-b/off       10100101         VinE3       552-a       others-b/off       10100101         VinE4       553-a       others-b/off       10100110         VinE2       52-a       others-b/off       10100110         VinE1       55-a       others-b/off       10100011         Vin51       57-a       others-b/off       10100011         Vin52       513A-a, others-b/off       10100011       Vin50         Vin53       519A-a, others-b/off       10100011       Vin50         Vin53       519A-a, others-b/off       10100011       Vin50         Vin53       550-a       others-b/off       10100010         Vin53       550-a       others-b/off       10100010         Vin64       553-a       others-b/off       10100010         Vin64       553-a       others-b/off       10			V <sub>in</sub> E2	S2-a	, others-b / off	10100110	
Vin51       57A-a       others-b / off       10100011         Vin52       513A-a, others-b / off       10100010         Vin53       519A-a, others-b / off       10100010         Vin53       550-a       others-b / off       10100101         VinE3       550-a       others-b / off       10100101         VinE3       553-a       others-b / off       10100101         VinE4       553-a       others-b / off       10100110         VinE1       55-a       others-b / off       10100110         VinE1       55-a       others-b / off       10100011         Vin51       57A-a, others-b / off       10100011       1         Vin52       513A-a, others-b / off       10100010       1         Vin53       519A-a, others-b / off       10100010       1         Vin53       519A-a, others-b / off       10100010       1         Vin53       550-a       others-b / off       10100010       1         Vin53       550-a       others-b / off       10100101       1         Vin64       553-a       others-b / off       10100101       1		B/W Mode	V <sub>in</sub> E1	S5-a	, others-b / off	10100111	
VinS2       513A-a, others-b/off       10100010         VinS3       513A-a, others-b/off       10100010         VinE3       550-a, others-b/off       10100010         VinE3       553-a, others-b/off       10100101         VinE4       553-a, others-b/off       10100100         VinE2       52-a, others-b/off       10100110         VinE1       55-a, others-b/off       10100110         VinE1       55-a, others-b/off       10100110         Vin51       55-a, others-b/off       10100011         Vin52       513A-a, others-b/off       10100010         Vin53       519A-a, others-b/off       10100010         Vin53       519A-a, others-b/off       10100010         Vin53       550-a, others-b/off       10100010         Vin53       550-a, others-b/off       10100010         Vin64       553-a, others-b/off       10100010         Vin64       553-a, others-b/off       10100101	4-(1)	Dynamic Pance	V <sub>in</sub> S1	57A-a	, others-b / off	10100011	Measure the amplitude in the same
VinS3       519A-a, others-b / off       10100001         VinE3       550-a       others-b / off       10100101         VinE4       553-a       others-b / off       10100100         VinE2       52-a       others-b / off       10100110         VinE1       55-a       others-b / off       10100110         VinE1       55-a       others-b / off       10100111         VinE1       55-a       others-b / off       10100111         Vin51       57-a       others-b / off       10100111         Vin52       513A-a, others-b / off       10100010       10100010         Vin53       519A-a, others-b / off       10100010       10100010         Vin53       550-a       others-b / off       10100010         Vin64       553-a       others-b / off       10100101         Vin64       553-a       others-b / off       10100101		(Main)	V <sub>in</sub> sz	S13A-a	, others-b / off	10100010	way using pins 44 and 42 to find the
VinE3         550-a         others-b / off         10100101           VinE4         553-a         others-b / off         10100100           VinE4         553-a         others-b / off         10100110           VinE2         52-a         others-b / off         10100110           VinE1         55-a         others-b / off         10100111           VinE1         55-a         others-b / off         10100111           Vin51         57A-a         others-b / off         10100111           Vin52         513A-a, others-b / off         10100010         10100010           Vin53         519A-a, others-b / off         10100010         10100010           Vin63         550-a         others-b / off         10100101           Vin64         553-a         others-b / off         10100101		(mpm)	V <sub>in</sub> S3	S19A-a	, others-b / off	10100001	smaller one.
VinE4         S53-a         others-b / off         10100100           VinE2         S2-a         others-b / off         10100110           VinE1         S5-a         others-b / off         10100111           VinS1         S5-a         others-b / off         10100111           VinS1         S5-a         others-b / off         10100111           VinS1         S7A-a         others-b / off         10100011           VinS2         S13A-a, others-b / off         10100010           VinS3         S19A-a, others-b / off         10100010           VinE3         S50-a         others-b / off         10100010           VinE3         S50-a         others-b / off         10100010           VinE4         S53-a         others-b / off         10100100			V <sub>in</sub> E3	550-a		10100101	
VinE2       S2-a       , others-b / off       DATA 3         VinE1       S5-a       , others-b / off       10100110         VinS1       S5-a       , others-b / off       10100111         VinS1       S7A-a       , others-b / off       10100011         VinS2       S13A-a, others-b / off       10100010       10100010         VinS3       S19A-a, others-b / off       10100010       10100001         VinE3       S50-a       , others-b / off       10100101         VinE4       S53-a       , others-b / off       10100100			V <sub>in</sub> E4	553-a	, others-b / off	10100100	
VinE2       S2-a       , others-b / off       10100110         VinE1       S5-a       , others-b / off       10100111         VinS1       S7A-a       , others-b / off       10100011         VinS2       S13A-a, others-b / off       10100010       10100010         VinS3       S19A-a, others-b / off       10100010       10100001         VinE3       S50-a       , others-b / off       10100101         VinE3       S53-a       , others-b / off       10100101         VinE4       S53-a       , others-b / off       10100100						DATA 3	
VinE1         S5-a         others-b / off         10100111           VinS1         S7A-a         others-b / off         10100011           VinS2         S13A-a, others-b / off         10100010           VinS3         S19A-a, others-b / off         10100010           VinS3         S19A-a, others-b / off         10100001           VinE3         S50-a         others-b / off         10100101           VinE4         S53-a         others-b / off         10100101			VinE2		, others-b / off	10100110	
VinS1         S7A-a         others-b / off         10100011           VinS2         S13A-a, others-b / off         10100010           VinS3         S19A-a, others-b / off         10100001           VinE3         S50-a, others-b / off         10100010           VinE3         S50-a, others-b / off         10100101           VinE4         S53-a, others-b / off         10100100		R / W Mode	V <sub>in</sub> E1	S <sub>5</sub> -a	, others-b / off	10100111	Massime the second second second
VinS2         S13A-a, others-b / off         10100010           VinS3         S19A-a, others-b / off         10100001           VinE3         S50-a , others-b / off         10100101           VinE4         S53-a , others-b / off         10100100	(2)-4	Dynamic Range	V <sub>in</sub> S1	S7A-a	, others-b / off	10100011	Intersure trie amplitude in the same
VinS3         S19A-a, others-b / off         10100001           VinE3         S50-a , others-b / off         10100101           VinE4         S53-a , others-b / off         10100100	Ì.	(Sub)	V <sub>in</sub> s2	S13A-a	, others-b / off	10100010	way using pins 34 and 32 to tind the
S <sub>50</sub> -a , others-b / off S <sub>53</sub> -a , others-b / off			V <sub>in</sub> s3	519A-a	, others-b / off	10100001	
S53-a , others-b / off			V <sub>in</sub> E3	550-a	, others-b / off	10100101	
			V <sub>in</sub> E4	S53-a	, others-b / off	10100100	

			MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, VCC	<b>NLESS OTHE</b>	RWISE SPECIFIED, V <sub>CC</sub> =9V, Ta=25±3°C)
NOTE	ITEM		SW & VR MODE		
			SW MODE	DATA 2	MEASUREMENT METHOD
		V <sub>in</sub> E2	S2-a , others-b / off	****0110	
		VinE1	S5-a , others-b / off	****0111	
	Video Gain	V <sub>in</sub> S1	S7A-a , others-b / off	****0011	(1) V1 15kHz, 1V <sub>b-b</sub> input.
5-(1)	5-(1) (Main)	VinS2	S13A-a, others-b / off	****0010	(2) For each, measure the amplitude on
		Vin53	S19A-a, others-b / off	****0001	pin 46 to find the gain.
		V <sub>in</sub> E3	S50-a , others-b / off	****0101	1
		V <sub>in</sub> E4	S53-a , others-b / off	****0100	
				DATA 3	
		V <sub>in</sub> E2	S2-a , others-b / off	****0110	
		VinE1	S5-a , others-b / off	****0111	
(ر) ا	Video Gain کارون کارو کارون کارون ک	V <sub>in</sub> s1	S7A-a , others-b / off	****0011	(1) V1 15KHz, 1V <sub>p-p</sub> input.
	(Sub)	V <sub>in</sub> s2	S13A-a, others-b/off	****0010	(z) For each, measure the amplitude on
		V <sub>in</sub> S3	S19A-a, others-b/off	****0001	pin 36 to find the gain.
		V <sub>in</sub> E3	550-a , others-b / off	****0101	
		V <sub>in</sub> E4	S53-a , others-b / off	****0100	
				DATA 2	
		V <sub>in</sub> E2	S2-a , S47-on, others-b / off	****0110	
	Video Gain	VinE1	S5-a , S47-on, others-b / off	****0111	
5-(3)	(Clamp Off)	VinS1	S7A-a , S47-on, others-b / off	****0011	(1) V1 I5KHZ, 1V <sub>P-P</sub> input.
	(Main)	V <sub>in</sub> S2	È.	****0010	(<) For each, measure the amplitude on
		V <sub>in</sub> sa	S19A-a, S47-on, others-b/off	****0001	pin 46 to find the gain.
		V <sub>in</sub> E3	S50-a , S47-on, others-b / off	****0101	
		VinE4	S53-a , S47-on, others-b / off	****0100	
				DATA 3	
		V <sub>in</sub> E2	•	****0110	
	Video Gain	V <sub>in</sub> E1	S5-a , S37-on, others-b / off	****0111	
5-(4)	(Clamp Off)	V <sub>in</sub> S1	S7A-a , S37-on, others-b / off	****0011	(1) V1 ESKHZ, 1V <sub>p-p</sub> input.
	(Sub)	V <sub>in</sub> s2	S13A-a, S37-on, others-b / off	****0010	(<) For each, measure the amplitude on
		V <sub>in</sub> s3	S19A-a, S37-on, others-b/off	****0001	pin so to the the gain.
		V <sub>in</sub> E3	S50-a , S37-on, others-b / off	****0101	
		VinE4	553-a , S37-on, others-b / off	****0100	

TEM TEM TEM Tem Tem Tem Tem Tem Tem Tem Tem			MEASURING CONDITIONS (UN	<b>NLESS OTHE</b>	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, V <sub>CC</sub> = 9V, Ta = $25\pm3^{\circ}$ C)
YinS1         Sg-a         oth           YinS2         S15-a         oth           YinS3         S21-a         oth           Yin1         Sq8-a         oth           Yin1         Sq8-a         oth           Yin1         S48-a         oth           Yin1         S48-a         oth           Yin1         S48-a         oth           Yin1         S48-a         oth           Yin51         S11-a         oth           Cin53         S50-a         oth           Cin53         S21-a         oth           Yin52         S17-a         oth           Yin53         S21-a         oth           Yin53         S21-a         oth           Yin53         S21-a         oth           Yin52         S11-a         oth           Yin53         S21-a         oth           S11-a         S23-a         oth           Yin53         S21-a         oth           S11-a         S11-a         oth           Yin52         S11-a         oth           S11-a         S11-a         oth           S11-a         S11-a         oth <td>ITEN</td> <td>~</td> <td>SW &amp; VR MODE</td> <td></td> <td></td>	ITEN	~	SW & VR MODE		
YinS1         S9-a           YinS2         515-a           YinS3         521-a           Yin1         548-a           Yin1         548-a           Yin1         548-a           Yin1         548-a           Yin2         511-a           Cin51         511-a           Cin53         521-a           Yin53         523-a           Yin52         517-a           Cin53         523-a           Yin52         517-a           Yin52         517-a           Yin53         523-a           Yin52         517-a           Yin52         517-a           Yin52         517-a           Yin52         517-a           Yin52         517-a           Yin52			SW MODE	DATA 2	MEASUREMENT METHOD
YinS2 515-a, YinS3 521-a, YinS3 520-a, CinS1 548-a, VinE3 550-a, CinS1 511-a, CinS1 511-a, CinS1 511-a, CinS1 511-a, CinS1 523-a, YinS2 512-a, YinS2 517-a, CinS1 511-a, CinS1 511-a, CinS1 511-a, CinS1 511-a, CinS1 511-a, CinS1 511-a, CinS1 511-a, CinS1 511-a, CinS1 511-a, CinS1 511-a, YinS2 517-a, YinS1 59-a, YinS1 5		Y <sub>in</sub> S1	Sg-a , others-b / off	11111011	
YinS3         S21-a.           Yin1         548-a.           Yin1         548-a.           VinE3         550-a.           CinS1         511-a.           CinS2         517-a.           CinS3         550-a.           CinS1         511-a.           CinS1         511-a.           CinS2         517-a.           CinS3         523-a.           Yin52         517-a.           Yin53         521-a.           Yin53         521-a.           Yin53         521-a.           Yin53         521-a.           Yin53         521-a.           Yin53         521-a.           Cin53         523-a.           Yin54         517-a.           Cin53         521-a.           Yin52         517-a.           Cin53         523-a.           Yin54         517-a.           Yin55         517-a.           Yin54         53-a.           Yin55         517-a.           Yin52         517-a.		Y <sub>in</sub> s2	515-a, others-b / off	11111010	Monore the state of the second second
Yin1         S48-a, VinE3         S60-a, S50-a, CinS1         S48-a, S17-a, S17-a, S17-a, S17-a, S17-a, S17-a, S17-a, S17-a, S17-a, S17-a, S17-a, VinS1           Yin2         S17-a, S17-a, VinS3         S17-a,		Y <sub>in</sub> S3	S21-a, others-b / off	11111001	Iveasure the amplitude in the same
VinE3         S50-a.           CinS1         511-a.           CinS2         517-a.           CinS3         523-a.           CinS1         540-a.           CinS1         540-a.           YinS2         515-a.           YinS3         521-a.           YinS4         51-a.           YinS3         521-a.           YinS4         51-a.           YinS5         517-a.           YinS4         517-a.           YinS5         517-a.	uie ju	Yin1	548-a, others-b / off	0101 * * * *	way using pin 44.
CinS1 511-a, CinS2 517-a, CinS3 523-a, Cin1 540-a, S17-a, S17-a, S17-a, S17-a, S17-a, S17-a, S17-a, Cin2 538-a, Vin2 538-a, Vin2 533-a, Vin5 533-a, Vi	c dalit ain)	V <sub>in</sub> E3	S50-a, others-b / off	0100****	
CinS2 517-a, CinS3 523-a, Cin1 540-a, YinS2 515-a, YinS2 515-a, YinS2 515-a, YinS3 521-a, Vin52 538-a, Vin52 533-a, CinS1 511-a, CinS1 517-a, CinS1 517-a, CinS1 517-a, YinS3 521-a, YinS3 521-a, YinS1 59-a, YinS1 59-a, Yin51 59-a, Yin51 59-a, Yin51 59-a, Yin51 59-a,	(mp	C <sub>in</sub> S1	S <sub>11</sub> -a, others-b / off	11111011	
Cin S3 Cin S3 Cin S1 Cin S2 Cin S2 Cin S3 Cin S3 Ci		C <sub>in</sub> S2	S17-a, others-b/off	11111010	Measure the amplitude in the same
Cin 1 Yin 51 Yin 52 Cin 52 Cin 51 Cin 51 Cin 53 Cin		C <sub>in</sub> S3	S23-a, others-b / off	11111001	way using pin 42.
YinS1     S9-a       YinS2     515-a       YinS2     515-a       Yin2     538-a       Yin51     517-a       Cin32     517-a       Yin51     59-a       Yin52     517-a       Cin33     521-a       Yin53     517-a       Yin51     59-a       Yin51     59-a       Yin51     59-a       Yin51     59-a       Yin52     517-a       Yin52     517-a       Yin52     517-a       Yin52     517-a		Cin 1	S40-a, others-b / off	0101****	
YinS1     Sg-a       YinS2     Sg-a       YinS2     Sg-a       Yin2     Sga-a       Yin2     Sga-a       Yin2     Sga-a       VinE4     Sga-a       CinS1     Sga-a       CinS3     Sga-a       CinS3     Sga-a       Yin52     Sga-a       Cin33     Sga-a       Cin53     Sga-a       Cin53     Sga-a       Cin53     Sga-a       Cin53     Sga-a       Cin53     Sga-a       Cin53     Sga-a       Yin51     Sga-a       Yin52     Sga-a       Yin51     Sg-a       Yin52     Sga-a				DATA 3	
YinS2 YinS3 VinS3 CinS1 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 YinS1 CinS3 YinS1 CinS3		Y <sub>in</sub> S1	Sg-a , others-b / off	11111011	
Y <sub>in</sub> S3 V <sub>in</sub> E4 CinS1 CinS2 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 YinS1 CinS3 YinS1		Y <sub>in</sub> s2	S15-a, others-b / off	11111010	Measure the amplitude in the same
Y <sub>in</sub> 2 Cin51 Cin52 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin53 Cin54		Y <sub>in</sub> sa	S21-a, others-b/off	11111001	way using pin 34.
V <sub>in</sub> E4 C <sub>in</sub> S1 C <sub>in</sub> S2 C <sub>in</sub> S3 C <sub>in</sub> S	C Gain	Y <sub>in</sub> 2	S38-a, others-b / off	0101****	
CinS1 CinS2 CinS2 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3	lb)	VinE4	S53-a, others-b / off	0100****	
CinS2 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3 CinS3		C <sub>in</sub> S1	S11-a, others-b / off	11111011	
CinS3 CinS3 YinS2 CinS2 CinS2 CinS2 CinS3 YinS1 YinS1		C <sub>in</sub> sz	S17-a, others-b / off	11111010	Measure the amplitude in the same
Cin <sup>2</sup> Yin <sup>51</sup> Cin <sup>53</sup> Cin <sup>53</sup> Cin <sup>53</sup> Cin <sup>53</sup> Yin <sup>51</sup>		C <sub>in</sub> S3	S23-a, others-b / off	11111001	way using pin 32.
YinS1 YinS2 CinS1 CinS2 CinS3 YinS1		C <sub>in</sub> 2	S30-a, others-b / off	0101****	
Yin S1 Yin S2 Cin S1 Cin S3 Yin S1 Yin S1				DATA 2	
YinS2 CinS1 CinS2 CinS2 CinS3 YinS1		Y <sub>in</sub> S1	Sg-a , others-b / off	11111011	
YinS3 521-a, CinS1 511-a, CinS2 517-a, CinS3 523-a, YinS1 59-a , YinS2 54-a	/ideo Gain	Y <sub>in</sub> 52	S <sub>15</sub> -a, others-b / off	11111010	Montria the smalltride is the second
CinS1 CinS2 CinS3 YinS1	ain)	Yin <sup>S3</sup>	S21-a, others-b / off	11111001	ואיפסטעיר נוור מוווטוונטער זה נהר אמוור עניני נוניסי סיס זה
C <sub>in</sub> S2 C <sub>in</sub> S3 Y <sub>in</sub> S1 Y <sub>in</sub> S2	(	CinS1	S <sub>11</sub> -a, others-b / off	11111011	
Cin <sup>S3</sup> Yin <sup>S1</sup> YinS2		C <sub>in</sub> sz	S17-a, others-b / off	11111010	
Y <sub>in</sub> S1 YinS2		C <sub>in</sub> S3	S23-a, others-b / off	11111001	
YinS1 YinS2				DATA 3	
Yin S2		Y <sub>in</sub> s1	Sg-a , others-b / off	11111011	
S Video Gain	/ideo Gain	Y <sub>in</sub> s2	S <sub>15</sub> -a, others-b / off	1111010	Messure the smalltude in the same
	b)	Y <sub>in</sub> s3	S21-a, others-b/off	11111001	measure the amplitude III the same
CinS1	ĥ	CinS1	S11-a, others-b / off	11111011	
		Cin52	S17-a, others-b/off	11111010	
Cin <sup>S3</sup> S <sub>23</sub> -a, othe		C <sub>in</sub> s3	S23-a, others-b / off	11111001	

ERWISE SPECIFIED, V <sub>CC</sub> = 9V, Ta = 25±3°C)	MEACUDEMENT MATTICE				Measure the amplitude in the same	way using pin 36.						Inteasure the amplitude in the same	way using pin 46.						Measure the amplitude in the same	way using pin 44.							Inteasure the amplitude in the same	way using pin 42.		
LESS OTHE		DATA 2	11111011	11111010	11111001	11111011	11111010	11111001	DATA 3	11111011	11111010	11111001	11111011	11111010	11111001	DATA 2	10100110	10100111	10100011	10100010	10100001	10100101	10100100	10100110	10100111	10100011	10100010	10100001	10100101	10100100
MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, V <sub>CC</sub> = 9V,	SW & VR MODE	SW MODE	S9-a , S37-on, others-b / off	S15-a , S37-on, others-b / off	S21-a , S37-on, others-b / off	S <sub>11</sub> -a , S <sub>37</sub> -on, others-b / off	-	S23-a , S37-on, others-b / off		Sg-a , S47-on, others-b / off	S15-a , S47-on, others-b / off	S21-a , S47-on, others-b / off	S11-a , S47-on, others-b/off	S17-a , S47-on, others-b/off	S23-a , S47-on, others-b / off		S2-a , others-b / off	S5-a , others-b / off	S7A-a , others-b / off	S13A-a, others-b / off	S19A-a, others-b / off	S50-a , others-b / off	S53-a , others-b / off	S2-a , others-b / off	S5-a , others-b / off	S7A-a , others-b / off	S13A-a, others-b / off	S19A-a, others-b / off	S50-a , others-b / off	S53-a , others-b / off
			Y <sub>in</sub> s1	Y <sub>in</sub> sz	Y <sub>in</sub> sa	C <sub>in</sub> S1	C <sub>in</sub> sz	C <sub>in</sub> S3		Y <sub>in</sub> s1	Y <sub>in</sub> s2	Y <sub>in</sub> sa	C <sub>in</sub> S1	C <sub>in</sub> s2	C <sub>in</sub> s3		V <sub>in</sub> E2	VinE1	V <sub>in</sub> S1	V <sub>in</sub> sz	V <sub>in</sub> S3	V <sub>in</sub> E3	V <sub>in</sub> E4	V <sub>in</sub> E2	V <sub>in</sub> E1	V <sub>in</sub> S1	V <sub>in</sub> s2	V <sub>in</sub> sa	V <sub>in</sub> E3	VinE4
	ITEM			S Video Gain	(Clamp Off)						S Video Gain	7-(4) (Clamp Off)	(Main)									R/W Mode Gain	(Main)							
	NOTE				7_(3)							7-(4)											8-(1)							

NOTE			INEASURING CONDITIONS (I		MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, V <sub>CC</sub> = 9V, Ta = $25\pm3^{\circ}$ C)
	ITEM		SW & VR MODE		
••			SW MODE	DATA 3	
		V <sub>in</sub> E2	S2-a , others-b / off	10100110	
		VinE1	S5-a , others-b / off	10100111	
		V <sub>in</sub> S1	S7A-a , others-b / off	10100011	
		V <sub>in</sub> s2	S13A-a, others-b/off	10100010	
-		V <sub>in</sub> s3	S19A-a, others-b / off	10100001	way using pin 34.
		Vin <sup>E3</sup>	S50-a , others-b / off	10100101	
B//	W Mode Gain	V <sub>in</sub> E4	S53-a , others-b / off	10100100	
(Sul	(qng)	VinE2	S2-a , others-b / off	10100110	
		VinE1	S5-a , others-b / off	10100111	
		V <sub>in</sub> s1	S7A-a , others-b / off	10100011	-
		V <sub>in</sub> s2	S13A-a, others-b / off	10100010	
		V <sub>in</sub> s3	S19A-a, others-b / off	10100001	way using pin 32.
		V <sub>in</sub> E3	S50-a , others-b / off	10100101	
		V <sub>in</sub> E4	S53-a , others-b / off	10100100	

MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED,  $V_{CC} = 9V$ ,  $T_{a} = 25 \pm 3^{\circ}C$ )

	MEASUREMENT METHOD		110	111 (1) V1 3.58MHz, 1V <sub>D-D</sub> input.				and S53 to 'a', measure the		 		13			۶		001 221, 523, 530, 540, 540, 550, 500			011 36 and find its ratio to output in 10		001	2	011	010 Measure the maximum level of	001 crosstalk in the same way using pin 44.	***	***	3	011	010 Measure the maximum level of	001 crosstalk in the same way using pin 34.	***
		SW MODE DATA 2	All-b/off except those specified on the left ****0110	All-b/off except those specified on the left <b>****0111</b>	All-b/off except those specified on the left <b>****0011</b>	All-b/off except those specified on the left ****0010	All-b / off except those specified on the left ****0001	All-b/off except those specified on the left + ****0101	All-b / off except those specified on the left ****0100	All-b/off except those specified on the left ****1010	All-b / off except those specified on the left ****1001	DATA 3	All-b/off except those specified on the left ****0110	All-b/off except those specified on the left ****0111	All-b/off except those specified on the left ****0011	All-b/off except those specified on the left <b>****0010</b>	All-b/off except those specified on the left <b>****0001</b>	All-b/off except those specified on the left ****0101	All-b/off except those specified on the left ****0100	All-b/off except those specified on the left <b>****1011</b>	All-b/off except those specified on the left <b>****1010</b>	All-b / off except those specified on the left <b>****1001</b>	DATA 2	All-b/off except those specified on the left <b>1111011</b>	All-b/off except those specified on the left <b>11111010</b>	All-b/off except those specified on the left <b>11111001</b>	All-b/off except those specified on the left 0101****	All-b/off except those specified on the left 0100****	DATA 3	All-b/off except those specified on the left 11111011	All-b/off except those specified on the left 1111010	All-b/off except those specified on the left <b>11111001</b>	All-b/ aff excent those specified on the left 0101 * * *
TEM			VinE2	VinE1	V <sub>in</sub> S1			VinE3		 YinS2, CinS2							Vin53	VinE3				YinS3, CinS3		Y <sub>in</sub> s1		Y <sub>in</sub> sa		V <sub>in</sub> E3		Y <sub>in</sub> s1		Y <sub>in</sub> S3	Yin2
NOTE							V 5W	(Main)									9-(2) 9-(2)	'anc'							10-(1) Y SW	(Main					10_(7) Y SW	(qns) (2/-2/-	

TA8851BN/CN--26

2000-03-03 26/46

			MEASURING CONDITIONS (UN	VLESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED. VCC = 9V Ta = 25+3°C)
NOTE	ITEM		SW & VR MODE		
			SW MODE	DATA 2	MEASUREMENT METHOD
		C <sub>in</sub> S1	Ali-b / off except those specified on the left	11111011	
11-(1)	11_(1) C Switch Crosstalk	C <sub>in</sub> s2	All-b/off except those specified on the left	11111010	Measure the maximum level of
	(Main)	C <sub>in</sub> s3	All-b/off except those specified on the left	11111001	crosstalk in the same way using pin 42.
		Cin 1	All-b/off except those specified on the left	0101****	
				DATA 3	
	C Switch Crosstall	CinS1	All-b/off except those specified on the left	11111011	-
11-(2)		C <sub>in</sub> s2	All-b/off except those specified on the left	11111010	
	(apr)	Cin53	All-b/off except those specified on the left	11111001	crosstalk in the same way using pin 32.
		C <sub>in</sub> 2	All-b/off except those specified on the left	0101****	
	-			DATA 2	
		VinE2	All-b/off except those specified on the left	****0110	
		VinE1	All-b/off except those specified on the left	****0111	
		V <sub>in</sub> s1	All-b/off except those specified on the left	****0011	
	V Switch Crosstalk	V <sub>in</sub> s2	All-b/off except those specified on the left	****0010	(1) 247-UN, V3 = UV.
12-(1)	12-(1) (Clamp Off)	V <sub>in</sub> S3	All-b/off except those specified on the left	****0001	(z) Measure the maximum level of
	(Main)	VinE3	All-b/off except those specified on the left	****0101	crosstalk in the same way using pin
		VinE4	All-b / off except those specified on the left	****0100	40.
		YinS1, CinS1	All-b/off except those specified on the left	****1011	
		YinS2, CinS2	All-b / off except those specified on the left	****1010	
		Y <sub>in</sub> S3, C <sub>in</sub> S3	All-b / off except those specified on the left	****1001	
				DATA 3	
÷		VinE2	All-b/off except those specified on the left	****0110	
		VinE1	All-b/off except those specified on the left	****0111	
		V <sub>in</sub> s1	All-b/off except those specified on the left	****0011	
	V Switch Crosstalk	V <sub>in</sub> s2	All-b / off except those specified on the left	****0010	(1) 337-UN, V3 = UV.
12-(2)	12-(2) (Clamp Off)	VinS3	All-b / off except those specified on the left	****0001	(<) Inteasure the maximum level of
	(Sub)	VinE3	All-b / off except those specified on the left	****0101	crosstalk in the same way using pin
		V <sub>in</sub> E4	All-b/off except those specified on the left	****0100	- <u>-</u>
_		YinS1, CinS1	All-b/off except those specified on the left	****1011	
		YinS2, CinS2	All-b/off except those specified on the left	****1010	
		YinS3, CinS3	All-b/off except those specified on the left	****1001	

			MEASURING CONDITIONS (UN	ILESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED. VCr = $9V$ . Ta = $25 + 3°C$ )
NOTE	ITEM		SW & VR MODE		
			SW MODE	DATA 2	MEASUREMENT METHOD
····		V <sub>out</sub> 1 Output	Vout1 Output All-b/off except those specified on the left	0000****	<ol> <li>V1 3.58MHz, 1V<sub>p-p</sub> input.</li> <li>While sequentially switching 52, 55, 57A, 59, 511, 513A, 515, 517, 519A, 521, 523, 530, 538, 540, 548, 550, and 553 to 'a', measure the maximum level of crosstalk to pin 46 and find its ratio to output in selected mode.</li> </ol>
		Yout1 Output	out1 Output All-b/off except those specified on the left	*****00	Measure the maximum level of crosstalk in the same way using pin 44.
		Cout1 Output	Cout1 Output All-b/off except those specified on the left	*****00	Measure the maximum level of crosstalk in the same way using pin 42.
				DATA 3	
13	Mute Attenuation	V <sub>out</sub> 2 Output	/out2 Output All-b/off except those specified on the left	0000****	Measure the maximum level of crosstalk in the same way using pin 36.
		Y <sub>out</sub> 2 Output	out2 Output All-b/off except those specified on the left	*****00	Measure the maximum level of crosstalk in the same way using pin 34.
		C <sub>out</sub> 2 Output	Cout2 Output All-b/off except those specified on the left	*****00	Measure the maximum level of crosstalk in the same way using pin 32.
				DATA 2	
		Vout1 Output (Clamp Off)	All-b/off except those specified on the left ****0000	0000****	<ol> <li>S<sub>47</sub>-ON, V<sub>3</sub> = 0V</li> <li>Measure the maximum level of crosstalk in the same way using pin 46.</li> </ol>
				DATA 3	
		V <sub>out</sub> 2 Output (Clamp Off)	All-b/off except those specified on the left	0000****	<ul> <li>(1) \$47-ON, V<sub>3</sub> = 0V</li> <li>(2) Measure the maximum level of crosstalk in the same way using pin 36.</li> </ul>

NOTETEMSW RMODEDATA 2MEASUREMENT METHODNUdeo FrequencyVinetSya a, others-b/offMEASUREMENT METHOD14.(1)VinetSya a, others-b/offmeasure the output14.(1)VinetSya a, others-b/offmeasure the output14.(1)VinetSya a, others-b/offmeasure the output14.(1)VinetSya a, others-b/offmeasure the output14.(1)VinetSya a, others-b/offmeasure the output14.(2)VinetSya a, others-b/offmeasure the output14.(2)VinetSya a, others-b/offmeasure the output14.(2)VinetSya a, others-b/offmeasure the outputVinetSya a, others-b/offmeasureVinetSya a, stron, others-b/offmeasureVideo Frequency <td< th=""><th></th><th></th><th></th><th>MEASURING CONDITIONS (UN</th><th>VLESS OTHE</th><th>MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, VCC = 9V, Ta = <math>25\pm3^{\circ}</math>C)</th></td<>				MEASURING CONDITIONS (UN	VLESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, VCC = 9V, Ta = $25\pm3^{\circ}$ C)
Sw MODE         DATA 2           VinE2         52-a         others-b/off         ****0110           vinS1         574-a         others-b/off         ****0111           vinS1         574-a         others-b/off         ****0111           vinS1         574-a         others-b/off         ****0110           vinS1         574-a         others-b/off         ****0010           VinS3         5194-a         others-b/off         ****0101           vinS1         557-a         others-b/off         ****0101           vinE3         557-a         others-b/off         ****0101           vinS1         557-a         others-b/off         ****0110           vinS2         513A-a, others-b/off         ****0110           vinS2         513A-a, oth	NOTE			SW & VR MODE		
VinE2         S2-a         others-b/off         ****011           vinF1         55-a         others-b/off         ****011           VinS1         57A-a         others-b/off         ****011           VinS2         513A-a         others-b/off         ****011           VinS3         59-a         others-b/off         ****001           VinS3         59-a         others-b/off         ****011           VinE3         50-a         others-b/off         ****0101           VinE3         50-a         others-b/off         ****0101           VinE1         55-a         others-b/off         ****0101           Vin51         57A-a         others-b/off         ****0110           Vin51         57A-a         others-b/off         ****0110           Vin51         57A-a         others-b/off         ****0110           Vin51         57A-a         others-b/off         ****0110           Vin53         519A-a         others-b/off         ****0110           Vin53         519A-a         others-b/off         ****0110           Vin53         519A-a         others-b/off         ****0110           Vin53         519A-a         547-on         others-b/off	_			SW MODE	DATA 2	MEASUREMENT METHOD
VinE1         S5-a         v others-b/ off         ****011           Jency         VinS1         57A-a, others-b/ off         ****011           VinS2         513A-a, others-b/ off         ****0010           VinS3         519A-a, others-b/ off         ****0101           VinS3         550-a, others-b/ off         ****0101           VinE3         550-a, others-b/ off         ****0101           VinE3         550-a, others-b/ off         ****0101           VinE1         55-a, others-b/ off         ****0101           Vin51         57-a, others-b/ off         ****0110           Vin51         57-a, others-b/ off         ****0110           Vin53         519A-a, 547-on, others-b/ off         ****0101           Vin53         519A-a, 547-on	-		V <sub>in</sub> E2	-	****0110	
LencyVinS1 $57A-a$ , others-b/off****0011VinS2 $513A-a$ , others-b/off****0011VinS3 $519A-a$ , others-b/off****0101VinE3 $550-a$ , others-b/off****0101VinE4 $553-a$ , others-b/off****0101VinE1 $55-a$ , others-b/off****011Vin51 $57-a$ , others-b/off****011Vin51 $57-a$ , others-b/off****011Vin51 $57-a$ , others-b/off****011Vin52 $513A-a$ , others-b/off****011Vin53 $519A-a$ , others-b/off****011Vin53 $519A-a$ , others-b/off****011Vin53 $519A-a$ , others-b/off****011Vin53 $519A-a$ , others-b/off****0101Vin53 $519A-a$ , others-b/off****0101Vin51 $57A-a$ , others-b/off****0101Vin51 $57A-a$ , others-b/off****0101Vin51 $57A-a$ , $547-on$ , others-b/off****0101Vin51 $57A-a$ , $547-on$ , others-b/off****0101Vin51 $57A-a$ , $547-on$ , others-b/off****0101Vin52 $52-a$ , $547-on$ , others-b/off****0101Vin53 $519A-a$ , $537-on$ , others-b/off****0101Vin53 $519A-a$ ,			VinE1	•	****0111	
VinS2         513A-a, others-b/off         ****001           VinS3         519A-a, others-b/off         ****0101           VinS3         550-a, others-b/off         ****0101           VinE3         550-a, others-b/off         ****0101           VinE3         553-a, others-b/off         ****0110           VinE1         553-a, others-b/off         ****0110           VinE1         553-a, others-b/off         ****0110           VinS1         553-a, others-b/off         ****0110           VinS1         553-a, others-b/off         ****0110           VinS1         553-a, others-b/off         ****0110           VinS2         533-a, others-b/off         ****0110           VinS3         590-a, others-b/off         ****0110           VinE3         553-a, others-b/off         ****0110           VinE3         553-a, others-b/off         ****0110           VinS1         57A-a, 547-on, others-b/off         ****0110           VinS1         57A-a, 547-on, others-b/off         ****0101           VinS1         57A-a, 547-on, others-b/off         ****0101           VinS1         57A-a, 547-on, others-b/off         ****0101           VinS2         513A-a, 547-on, others-b/off         ****0101 <t< td=""><td></td><td>Video Frequency</td><td>V<sub>in</sub>s1</td><td>S7A-a , others-b / off</td><td>****0011</td><td>(1) V1 Trequency-variable, 1V<sub>p-p</sub> input.</td></t<>		Video Frequency	V <sub>in</sub> s1	S7A-a , others-b / off	****0011	(1) V1 Trequency-variable, 1V <sub>p-p</sub> input.
VinS3         519A-a, others-b / off         ****0001           VinE3         550-a         , others-b / off         ****0101           VinE3         550-a         , others-b / off         ****0101           VinE4         553-a         , others-b / off         ****0101           VinE1         553-a         , others-b / off         ****0110           VinE1         553-a         , others-b / off         ****0110           VinE2         553-a         , others-b / off         ****0110           VinS1         574-a         , others-b / off         ****0110           VinS2         5134-a, others-b / off         ****0110           VinE3         550-a         , others-b / off         ****0110           VinE3         550-a         , others-b / off         ****0110           VinE4         553-a         , others-b / off         ****0110           VinE3         550-a         , others-b / off         ****0110           VinE4         553-a         , others-b / off         ****0110           VinE3         550-a         547-on, others-b / off         ****0110           VinE3         550-a         547-on, others-b / off         ****0101           VinS1         574-a <td< td=""><td>14-(1)</td><td>) Response</td><td>V<sub>in</sub>s2</td><td>S13A-a, others-b / off</td><td>****0010</td><td>(2) For each, measure the output</td></td<>	14-(1)	) Response	V <sub>in</sub> s2	S13A-a, others-b / off	****0010	(2) For each, measure the output
VinE3         550-a         others-b/off         ****0101           VinE4         553-a         others-b/off         ****0100           VinE1         553-a         others-b/off         ****0110           VinE1         55-a         others-b/off         ****0111           VinE1         55-a         others-b/off         ****0110           Vin51         57A-a         others-b/off         ****0110           Vin53         519A-a         others-b/off         ****011           Vin53         550-a         others-b/off         ****010           Vin53         550-a         others-b/off         ****010           Vin53         550-a         others-b/off         ****010           Vin64         553-a         others-b/off         ****010           Vin61         553-a         547-on, others-b/off         ****010           Vin53         519A-a, 537-on, others-b/off         ****010           Vin53		(Main)	V <sub>in</sub> S3	S19A-a, others-b / off	****0001	amplitude on pin 46 to find the
VinE4         5g3-a         others-b/off         ****0100           VinE2         52-a         others-b/off         bATA 3           VinE1         55-a         others-b/off         ****0110           VinS1         57-a         others-b/off         ****0111           VinS1         57-a         others-b/off         ****0111           VinS1         57-a         others-b/off         ****0101           VinS3         519A-a         others-b/off         ****0101           VinS3         530-a         others-b/off         ****0101           VinS3         530-a         others-b/off         ****0101           VinE4         53-a         others-b/off         ****0101           VinS1         57A-a         547-on, others-b/off         ****0101           VinS2         519A-a         547-on, others-b/off         ****0101           VinS1         57A-a         547-on, others-b/off         ****0101           VinS2         519A-a <t< td=""><td></td><td></td><td>VinE3</td><td>S50-a , others-b / off</td><td>****0101</td><td>trequency equivalent to —3dB.</td></t<>			VinE3	S50-a , others-b / off	****0101	trequency equivalent to —3dB.
VinE2         S2-a         others-b/off         DATA 3           VinE1         55-a         others-b/off         ****0110           VinS1         55-a         others-b/off         ****0010           VinS1         57A-a         others-b/off         ****0010           VinS1         57A-a         others-b/off         ****010           VinS3         519A-a, others-b/off         ****010           VinS3         550-a         others-b/off         ****010           VinE3         550-a         others-b/off         ****010           VinE3         550-a         others-b/off         ****010           VinE4         55-a         547-on, others-b/off         ****010           VinS1         57A-a         547-on, others-b/off         ****010           VinS2         513A-a, 547-on, others-b/off         ****010           VinS3         519A-a, 547-on, others-b/off         ****010           VinS1         57A-a, 547-on, others-b/off         ****010           VinS2         513A-a, 547-on, others-b/off         ****010           VinS3         50-a, 547-on, others-b/off         ****010           VinS3         519A-a, 537-on, others-b/off         ****010           VinS4         537-on			VinE4		****0100	
VinE2         S2-a         others-b/off         ****011           Vin51         57A-a         others-b/off         ****011           Vin51         57A-a         others-b/off         ****011           Vin51         57A-a         others-b/off         ****011           Vin51         57A-a         others-b/off         ****0010           Vin53         519A-a         others-b/off         ****0101           Vin53         550-a         others-b/off         ****0101           VinE3         550-a         others-b/off         ****0100           VinE3         550-a         others-b/off         ****0110           VinE1         553-a         547-on, others-b/off         ****0110           Vin51         57A-a         547-on, others-b/off         ****0111           Vin52         513A-a         547-on, others-b/off         ****0110           Vin53         519A-a         547-on, others-b/off         ****0101           Vin53         550-a         547-on, others-b/off         ****0101           Vin53         550-a         547-on, others-b/off         ****0101           Vin53         550-a         547-on, others-b/off         ****0101           Vin53         537-on, ot					DATA 3	
Jency         VinE1         55-a         others-b/off         ****0111           VinS1         57A-a         others-b/off         ****0111           VinS1         57A-a         others-b/off         ****0010           VinS3         519A-a         others-b/off         ****0101           VinS3         550-a         others-b/off         ****0101           VinE3         550-a         others-b/off         ****0101           VinE3         550-a         others-b/off         ****0110           VinE1         553-a         547-on, others-b/off         ****0110           VinS1         557-a         547-on, others-b/off         ****0111           VinS1         57A-a         547-on, others-b/off         ****0111           VinS2         513A-a         547-on, others-b/off         ****0111           VinS3         519A-a         547-on, others-b/off         ****0111           VinS3         519A-a         537-on, others-b/off         ****0110           VinS3         519A-a         537-on, others-b/off         ****0111           VinS3         550-a         547-on, others-b/off         ****0110           VinS3         519A-a         537-on, others-b/off         ****0101			V <sub>in</sub> E2	•	****0110	
VinS1 $57A-a$ , others-b/off****0011VinS2 $513A-a$ , others-b/off****0101VinS3 $519A-a$ , others-b/off****0101VinE3 $550-a$ , others-b/off****0101VinE3 $553-a$ , others-b/off****0101VinE4 $553-a$ , others-b/off****0110VinE2 $55-a$ , sthers-b/off****0110VinE1 $55-a$ , sthers-b/off#***0110VinE2 $55-a$ , sthers-b/off#***0111Vin51 $57-a$ , sthon, others-b/off****0011Vin51 $57-a$ , sthon, others-b/off****0101Vin52 $513A-a$ , sthon, others-b/off****0101Vin53 $519A-a$ , sthon, others-b/off****0101Vin53 $519A-a$ , sthon, others-b/off****0101Vin51 $55-a$ , sthon, others-b/off****0110Vin51 $55-a$ , sthon, others-b/off****0110Vin52 $513A-a$ , sthon, others-b/off****0110Vin53 $519A-a$ , sthon, others-b/off****0110Vin53 $519A-a$ , sthon, others-b/off****0110Vin53 $519A-a$ , sthon, others-b/off****0101Vin53 $519A-a$ , sthon, others-b/off****0101Vin53 $519A-a$ , sthon, others-b/off****0101Vin53 $519A-a$ , sthon, others-b/off****0101Vin53 <t< td=""><td></td><td>Video Frequency</td><td>V<sub>in</sub>E1</td><td>•</td><td>****0111</td><td>(1) V<sub>1</sub> 15kHz, 1V<sub>b-b</sub> input</td></t<>		Video Frequency	V <sub>in</sub> E1	•	****0111	(1) V <sub>1</sub> 15kHz, 1V <sub>b-b</sub> input
VinS2 $S_{13}A$ -a, others-b/off****0010VinS3 $S_{19}A$ -a, others-b/off****0100VinE3 $S_{50}$ -a, others-b/off****0100VinE4 $S_{53}$ -a, others-b/off****0110VinE2 $S_{2}$ -a, $S_{47}$ -on, others-b/off****0110VinS1 $S_{5}$ -a, $S_{47}$ -on, others-b/off****0110VinS1 $S_{5}$ -a, $S_{47}$ -on, others-b/off****0111VinS1 $S_{5}$ -a, $S_{47}$ -on, others-b/off****0111VinS2 $S_{13}$ -a, $S_{47}$ -on, others-b/off****0101VinS3 $S_{19}$ -a, $S_{47}$ -on, others-b/off****0101VinS3 $S_{19}$ -a, $S_{47}$ -on, others-b/off****0111VinS3 $S_{13}$ -a, $S_{47}$ -on, others-b/off****0101VinS3 $S_{13}$ -a, $S_{47}$ -on, others-b/off****0111VinE3 $S_{50}$ -a, $S_{47}$ -on, others-b/off****0111VinE4 $S_{53}$ -a, $S_{37}$ -on, others-b/off****0111VinS1 $S_{7}$ -a, $S_{37}$ -on, others-b/off****0111VinS2 $S_{13}$ -a, $S_{37}$ -on, others-b/off****0111VinS3 $S_{13}$ -a, $S_{37}$ -on, others-b/off****0110VinS3 $S_{13}$ -a, $S_{37}$ -on, others-b/off****0110VinS3 $S_{13}$ -a, $S_{37}$ -on, others-b/off****0101VinE4 $S_{53$	14-(7)	Response	V <sub>in</sub> S1	æ	****0011	(2) For each, measure the output
VinS3         519A-a, others-b/off         ****0001           VinE3         550-a         , others-b/off         ****0100           VinE4         553-a         , others-b/off         ****0100           VinE2         52-a         , s47-on, others-b/off         ****0110           VinE1         55-a         , 547-on, others-b/off         ****0110           VinE1         55-a         , 547-on, others-b/off         ****0110           Vin51         57-a         , 547-on, others-b/off         ****0110           Vin52         513A-a         , 547-on, others-b/off         ****0110           Vin53         519A-a, 547-on, others-b/off         ****0110           Vin53         519A-a, 547-on, others-b/off         ****0110           Vin53         550-a         547-on, others-b/off         ****0110           Vin64         553-a         547-on, others-b/off         ****0110           Vin63         550-a         537-on, others-b/off         ****0110           Vin64         553-a         547-on, others-b/off         ****0110           Vin63         550-a         537-on, others-b/off         ****0110           Vin64         553-a         537-on, others-b/off         *****0110           Vin53		(Sub)	V <sub>in</sub> s2	S13A-a, others-b / off	****0010	amplitude on pin 36 to find the
VinE3         550-a         others-b / off         ****0100           VinE4         5 <sub>53</sub> -a         others-b / off         ****0100           VinE4         5 <sub>53</sub> -a         547-on, others-b / off         ****0110           VinE1         5 <sub>5</sub> -a         547-on, others-b / off         ****0111           VinE1         5 <sub>5</sub> -a         547-on, others-b / off         ****0111           Vin51         5 <sub>7</sub> A-a         547-on, others-b / off         ****0010           Vin52         513A-a         547-on, others-b / off         ****0110           Vin53         519A-a         547-on, others-b / off         ****0110           Vin53         519A-a         547-on, others-b / off         ****0110           Vin53         519A-a         547-on, others-b / off         ****0110           Vin53         550-a         547-on, others-b / off         ****0110           Vin64         553-a         547-on, others-b / off         ****0110           Vin61         553-a         547-on, others-b / off         ****0110           Vin62         52-a         537-on, others-b / off         ****0110           Vin61         55-a         537-on, others-b / off         ****0111           Vin52         513A-a, 537-on, others-b / off			V <sub>in</sub> S3	S19A-a, others-b/off	****0001	frequency equivalent to -3dB.
VinE4         553-a         others-b / off         ****0100           DATA 2         DATA 2         DATA 2           VinE2         52-a         547-on, others-b / off         ****0110           Vin51         55-a         547-on, others-b / off         ****0111           Vin51         57A-a         547-on, others-b / off         ****0011           Vin52         513A-a, 547-on, others-b / off         ****0010           Vin53         519A-a, 547-on, others-b / off         ****0010           Vin53         519A-a, 547-on, others-b / off         ****0110           Vin53         519A-a, 547-on, others-b / off         ****0110           Vin53         550-a , 547-on, others-b / off         ****0110           Vin64         553-a , 547-on, others-b / off         ****0110           Vin63         550-a , 547-on, others-b / off         ****0110           Vin64         553-a , 537-on, others-b / off         ****0110           Vin61         55-a , 537-on, others-b / off         ****0111           Vin53         519A-a, 537-on, others-b / off         ****0010           Vin53         519A-a, 537-on, others-b / off         *****0010           Vin53         519A-a, 537-on, others-b / off         *****0010           Vin53         51			VinE3	S <sub>50</sub> -a , others-b / off	****0101	
VinE2         52-a         547-on, others-b / off         Exxx0110           VinE1         55-a         547-on, others-b / off         ****0111           Vin51         57-a         547-on, others-b / off         ****0111           Vin52         513A-a, 547-on, others-b / off         ****0101           Vin53         519A-a, 547-on, others-b / off         ****0101           Vin53         519A-a, 547-on, others-b / off         ****0101           Vin53         519A-a, 547-on, others-b / off         ****0010           Vin53         519A-a, 547-on, others-b / off         ****0101           Vin53         550-a, 547-on, others-b / off         ****0101           Vin64         553-a, 547-on, others-b / off         ****0110           Vin61         553-a, 547-on, others-b / off         ****0110           Vin62         523-a, 537-on, others-b / off         ****0110           Vin51         57-a, 537-on, others-b / off         *****0111           Vin52         513A-a, 537-on, others-b / off         *****0111           Vin53         519A-a, 537-on, others-b / off         *****0111           Vin53         519A-a, 537-on, others-b / off         *****0111           Vin53         519A-a, 537-on, others-b / off         *****01010           Vin53 <td></td> <td></td> <td>VinE4</td> <td>S53-a , others-b / off</td> <td>****0100</td> <td></td>			VinE4	S53-a , others-b / off	****0100	
VinE2         52-a         \$47-on, others-b/off         ****0110           Iency         VinE1         55-a         \$47-on, others-b/off         ****0111           VinS1         55-a         \$47-on, others-b/off         ****0111           VinS2         513A-a, 547-on, others-b/off         ****0010           VinS3         519A-a, 547-on, others-b/off         ****0101           VinS3         519A-a, 547-on, others-b/off         ****0101           VinE3         550-a         \$547-on, others-b/off         ****0101           VinE3         550-a         \$547-on, others-b/off         ****0101           VinE3         550-a         \$547-on, others-b/off         ****0101           VinE4         553-a         \$57-on, others-b/off         ****0101           VinE2         52-a         \$537-on, others-b/off         ****0110           VinE1         57-a         \$37-on, others-b/off         ****0110           VinS1         57-a         \$37-on, others-b/off         ****0110           VinS2         519-a, 537-on, others-b/off         ****0110           VinS3         519-a, 537-on, others-b/off         ****0110           VinS3         519A-a, 537-on, others-b/off         ****0110           VinS3         519A-a,					DATA 2	
Lency       VinE1       55-a       547-on, others-b / off       ****0111         VinS1       57A-a       547-on, others-b / off       ****0010         VinS2       513A-a, 547-on, others-b / off       ****0010         VinS3       519A-a, 547-on, others-b / off       ****0010         VinS3       519A-a, 547-on, others-b / off       ****0101         VinE3       550-a       547-on, others-b / off       ****0101         VinE3       550-a       547-on, others-b / off       ****0101         VinE4       553-a       547-on, others-b / off       ****0101         VinE4       553-a       547-on, others-b / off       ****0110         VinE4       553-a       537-on, others-b / off       ****0110         VinE1       55-a       537-on, others-b / off       ****0111         VinS1       57A-a       537-on, others-b / off       ****0111         VinS2       513A-a, 537-on, others-b / off       ****0010       VinS3         VinS3       519A-a, 537-on, others-b / off       ****0101       VinS3         VinS3       519A-a, 537-on, others-b / off       ****0010       VinS3         VinS3       519A-a, 537-on, others-b / off       ****0101       VinS3         VinE4       553-a , 537-on			V <sub>in</sub> E2	-	****0110	
VinS1       S7A-a       S47-on, others-b / off       ****0011         VinS2       S13A-a, S47-on, others-b / off       ****010         VinS3       S19A-a, S47-on, others-b / off       ****010         VinS3       S19A-a, S47-on, others-b / off       ****010         VinE3       S50-a , S47-on, others-b / off       ****010         VinE3       S50-a , S47-on, others-b / off       ****010         VinE4       S53-a , S47-on, others-b / off       ****010         VinE4       S53-a , S37-on, others-b / off       ****0110         VinE1       S53-a , S37-on, others-b / off       ****011         VinS1       S7A-a , S37-on, others-b / off       ****0011         VinS2       S13A-a, S37-on, others-b / off       ****0010         VinS3       S19A-a, S37-on, others-b / off       ****0010         VinE4       S537-on, others-b / off       ****0101         VinE3       S19A-a, S37-on, others-b / off       ****0101         VinE4       S537-on, others-b / off       ****0101         VinE3       S50-a , S37-on, others		Video Frequency	V <sub>in</sub> E1	-	****0111	(1) V1 Trequency-variable, 1V <sub>p-p</sub> input,
VinS2       513A-a, 547-on, others-b / off       ****0010         VinS3       519A-a, 547-on, others-b / off       ****0101         VinE3       550-a       547-on, others-b / off       ****0101         VinE3       550-a       547-on, others-b / off       ****0101         VinE3       550-a       547-on, others-b / off       ****0101         VinE4       553-a       547-on, others-b / off       ****0110         VinE2       52-a       537-on, others-b / off       ****0110         VinE1       55-a       537-on, others-b / off       ****0111         VinS1       57-a       537-on, others-b / off       ****0111         VinS2       513A-a       537-on, others-b / off       ****0111         VinS2       513A-a       537-on, others-b / off       ****0111         VinS3       519A-a       537-on, others-b / off       ****0101         VinS3       550-a       537-on, others-b / off       ****0101         VinE3       550-a       537-on, others-b / off       ****0101         VinE3       550-a       537-on, others-b / off       ****0101         VinE4       553-a       537-on, others-b / off       ****0101	14-(3)	Response	V <sub>in</sub> S1	~	****0011	V3=UV.
Vin53       S19A-a, S47-on, others-b / off       ****0001         VinE3       550-a       , 547-on, others-b / off       ****0101         VinE4       553-a       , 547-on, others-b / off       ****0100         VinE4       553-a       , 547-on, others-b / off       ****0100         VinE4       553-a       , 537-on, others-b / off       ****0110         VinE1       55-a       , 537-on, others-b / off       ****0110         VinE1       55-a       , 537-on, others-b / off       ****0110         VinS1       57-a       , 537-on, others-b / off       ****0110         VinS2       513A-a       , 537-on, others-b / off       ****0110         VinS3       519A-a, 537-on, others-b / off       ****0101         VinS3       519A-a, 537-on, others-b / off       ****0101         VinS3       550-a, 537-on, others-b / off       ****0101         VinE3       550-a, 537-on, others-b / off       ****0101         VinE4       553-a, 537-on, others-b / off       ****0101		(Clamp Off)	V <sub>in</sub> S2	2	****0010	(z) For each, measure the output
VinE3       550-a       547-on, others-b / off       ****0101         VinE4       553-a       547-on, others-b / off       ****0100         VinE4       553-a       537-on, others-b / off       ****0110         VinE2       52-a       537-on, others-b / off       ****0110         VinE1       52-a       537-on, others-b / off       ****0111         VinE1       55-a       537-on, others-b / off       ****0111         VinS1       57-a       537-on, others-b / off       ****0111         VinS2       513A-a, 537-on, others-b / off       ****0101         VinS3       519A-a, 537-on, others-b / off       ****0101         VinS3       519A-a, 537-on, others-b / off       ****0101         VinE3       550-a , 537-on, others-b / off       ****0101         VinE4       553-a , 537-on, others-b / off       ****0101		(Main)	V <sub>in</sub> S3	S19A-a, S47-on, others-b/off	****0001	amplitude on pin 46 to find the
VinE4         S53-a         S47-on, others-b/off         ****0100           DATA 3         DATA 3         DATA 3         DATA 3           VinE2         S2-a         S37-on, others-b/off         ****0110           VinE1         S5-a         S37-on, others-b/off         ****0111           VinS1         S5-a         S37-on, others-b/off         ****0111           VinS1         S7A-a         S37-on, others-b/off         ****0011           VinS2         S13A-a, S37-on, others-b/off         ****0010           VinS3         S19A-a, S37-on, others-b/off         ****0010           VinS3         S19A-a, S37-on, others-b/off         ****0010           VinE3         S50-a, S37-on, others-b/off         ****01010           VinE3         S50-a, S37-on, others-b/off         ****0101           VinE4         S53-on, others-b/off         ****0101			V <sub>in</sub> E3	550-a , 547-on, others-b / off	****0101	irequency equivalent to3dB.
VinE2       S2-a       S37-on, others-b/off       AATA 3         VinE1       S5-a       S37-on, others-b/off       ****0110         VinS1       S7-a       S37-on, others-b/off       ****0111         VinS1       S7-a       S37-on, others-b/off       ****0111         VinS1       S7-a       S37-on, others-b/off       ****011         VinS2       S13A-a, S37-on, others-b/off       ****0010         VinS3       S19A-a, S37-on, others-b/off       ****0010         VinS3       S50-a, S37-on, others-b/off       ****0101         VinE3       S50-a, S37-on, others-b/off       ****0101         VinE4       S53-on, others-b/off       ****0101			V <sub>in</sub> E4	-	****0100	
VinE2       S2-a       , 537-on, others-b / off       ****0110         rency       VinE1       55-a       , 537-on, others-b / off       ****0111         VinS1       S7A-a       , 537-on, others-b / off       ****0011         VinS2       S13A-a, 537-on, others-b / off       ****0101         VinS2       S13A-a, 537-on, others-b / off       ****0010         VinS3       S19A-a, 537-on, others-b / off       ****0001         VinE3       S50-a       , 537-on, others-b / off       ****0001         VinE3       S50-a       , 537-on, others-b / off       ****0101         VinE4       S53-a       , 537-on, others-b / off       ****0101					DATA 3	
iency VinE1 S5-a , S37-on, others-b/off ****0111 VinS1 S7A-a , S37-on, others-b/off ****0011 VinS2 S13A-a, S37-on, others-b/off ****0010 VinS3 S19A-a, S37-on, others-b/off ****0001 VinE3 S50-a , S37-on, others-b/off ****0101 VinE4 S53-a , S37-on, others-b/off ****0100			V <sub>in</sub> E2	•	****0110	/1) // - farmer
VinS1         S7A-a         S37-on, others-b/off         ****0011         (2)           VinS2         S13A-a, S37-on, others-b/off         ****010         (2)           VinS3         S19A-a, S37-on, others-b/off         ****0010         (2)           VinS3         S19A-a, S37-on, others-b/off         ****0011         (2)           VinE3         S50-a         S37-on, others-b/off         ****0101           VinE4         S53-a         S37-on, others-b/off         ****0101		Video Frequency	V <sub>in</sub> E1	•	****0111	(1) v1 irequency-variable, 1v <sub>p-p</sub> input,
VinS2         S13A-a, S37-on, others-b/off         ****0010 <sup>(2)</sup> VinS3         S19A-a, S37-on, others-b/off         ****0001 <sup>(2)</sup> VinE3         S50-a         S37-on, others-b/off         ****0101           VinE3         S50-a         S37-on, others-b/off         ****0101           VinE4         S53-a         S37-on, others-b/off         ****0101	14-(4)	Response	V <sub>in</sub> s1	S7A-a , S37-on, others-b / off	****0011	V3 = UV.
Vin53 519A-a, 537-on, others-b/off ****0001 VinE3 550-a , 537-on, others-b/off ****0101 VinE4 553-a , 537-on, others-b/off ****0100		(Clamp Off)	V <sub>in</sub> S2	S13A-a, S37-on, others-b / off	****0010	(z) For each, measure the output
S50-a , S37-on, others-b/off		(Sub)	V <sub>in</sub> sa	S19A-a, S37-on, others-b / off	****0001	displitude on pin 36 to find the
553-a , 537-on, others-b / off			V <sub>in</sub> E3	S50-a , S37-on, others-b / off	****0101	irequency equivalent to
			VinE4	•	****0100	

MSw & VR MODEDATA 2MEASUREMENT METHONYinS159-a , others-b / off11111011MEASUREMENT METHONYinS2515-a, others-b / off11111001way using pin 44.YinS2551-a, others-b / off11111001way using pin 44.YinS2552-a, others-b / off11111001way using pin 44.YinS2552-a, others-b / off11111001way using pin 44.YinS2532-a, others-b / off11111001YinS2532-a, others-b / off11111001YinS3512-a, others-b / off11111001YinS3512-a, others-b / off11111001YinS3511-a, others-b /				MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED. VCC = 9V.	NLESS OTHE	RWISE SPECIFIED. VCC = 9V. Ta = 25+3°C
Sw MODE         DATA 2           Yin51         S9-a, others-b/off         11111011           Yin52         S15-a, others-b/off         11111011           Yin53         S21-a, others-b/off         11111011           Yin53         S21-a, others-b/off         0101****           Yin53         S50-a, others-b/off         0101****           Yin53         S50-a, others-b/off         0101****           Yin53         S50-a, others-b/off         0101****           Yin53         S50-a, others-b/off         0101****           Yin53         S17-a, others-b/off         0101****           Cin51         S17-a, others-b/off         0101****           Yin53         S23-a, others-b/off         0101****           Yin53         S21-a, others-b/off         0101****           Yin53         S23-a, others-b/off         0101****           Yin53         S23-a, others-b/off         0101**	NOTE			SW & VR MODE		
Yin51         S9-a         others-b/off         11111010           Yin52         S15-a, others-b/off         0101****           Yin53         S21-a, others-b/off         0101****           Yin53         S50-a, others-b/off         0101****           Yin53         S50-a, others-b/off         0101****           Vin63         S50-a, others-b/off         0101****           Vin63         S50-a, others-b/off         0101****           Cin51         S11-a, others-b/off         1111101           Cin53         S23-a, others-b/off         1111101           Cin53         S23-a, others-b/off         0101****           Cin53         S23-a, others-b/off         1111101           Yin51         S9-a, others-b/off         1111101           Yin52         S1-a, others-b/off         1111101           Yin53         S21-a, others-b/off         0101****           Vin52         S32-a, others-b/off         0101****           Yin53         S21-a, others-b/off         0101****           Yin53         S21-a, others-b/off         0101****           Cin51         S1-a, others-b/off         0101****           Yin53         S21-a, others-b/off         0101****           Cin51 <t< td=""><td></td><td></td><td></td><td>SW MODE</td><td>DATA 2</td><td>MEASUREMENT METHOD</td></t<>				SW MODE	DATA 2	MEASUREMENT METHOD
YinS2 $S_{15-a}$ , others-b / off $11111010$ YinS3 $S_{21-a}$ , others-b / off $0101_{****}$ Yin1 $S_{48-a}$ , others-b / off $0101_{****}$ Yin2 $S_{50-a}$ , others-b / off $0101_{****}$ CinS1 $S_{11-a}$ , others-b / off $11111011$ CinS2 $S_{17-a}$ , others-b / off $11111011$ CinS2 $S_{17-a}$ , others-b / off $11111011$ CinS3 $S_{23-a}$ , others-b / off $11111011$ CinS3 $S_{23-a}$ , others-b / off $11111011$ Yin52 $S_{17-a}$ , others-b / off $11111011$ Yin53 $S_{21-a}$ , others-b / off $11111011$ Yin53 $S_{23-a}$ , others-b / off $11111011$ Yin53 $S_{23-a}$ , others-b / off $11111011$ Yin53 $S_{23-a}$ , others-b / off $11111011$ Yin51 $S_{9-a}$ , others-b / off $11111011$ Yin52 $S_{17-a}$ , others-b / off $11111011$ Yin53 $S_{21-a}$ , others-b / off $111111011$ Yin53 $S_{21$			Y <sub>in</sub> s1	•	11111011	
YinS3         521-a, others-b/off         11111001           Iuency         Yin1         548-a, others-b/off         0100****           VinE3         550-a, others-b/off         0100****         0100****           VinE3         550-a, others-b/off         0100****         0100****           VinE3         550-a, others-b/off         0101****         0100****           VinE3         531-a, others-b/off         0101****         0101****           CinS1         531-a, others-b/off         0101****         0101****           VinS2         531-a, others-b/off         0101****         0101****           VinS1         532-a, others-b/off         0101****         0101****           VinS2         531-a, others-b/off         0101****         0101****           VinS2         532-a, others-b/off         01010****         0101****           VinS1         532-a, others-b/off         01010****         0101****           VinS2         532-a, others-b/off         01010****         0101****           VinS1         532-a, others-b/off         0101****         0101****           VinS2         532-a, others-b/off         01010****         0101****           VinS1         532-a, others-b/off         0101****         <			Y <sub>in</sub> sz	S15-a, others-b / off	11111010	Maanna adt an anna dhara
Yin1         548-a, others-b / off         0101****           VinE3         550-a, others-b / off         0100****           CinS1         511-a, others-b / off         11111011           CinS2         517-a, others-b / off         11111010           CinS1         517-a, others-b / off         11111010           CinS2         533-a, others-b / off         11111010           CinS3         523-a, others-b / off         0101****           CinS3         523-a, others-b / off         0101****           CinS1         515-a, others-b / off         0101****           YinS2         538-a, others-b / off         0101****           YinS3         521-a, others-b / off         0101****           YinS2         532-a, others-b / off         0101****           YinS3         523-a, others-b / off         0101****           YinS4         533-a, others-b / off         0101****           YinS2         530-a, others-b / off         0101****           YinS3         521-a, others-b / off         0101****           YinS1         59-a , others-b / off         0101****           YinS3         521-a, others-b / off         0101****           YinS4         51-a, others-b / off         11111001			Y <sub>in</sub> sa	S21-a, others-b/off	11111001	ivied a sure the amplitude in the same
VinE3         S50-a, others-b/off         0100****           CinS1         517-a, others-b/off         11111010           CinS2         517-a, others-b/off         11111001           CinS2         517-a, others-b/off         11111001           CinS1         517-a, others-b/off         11111001           CinS1         517-a, others-b/off         0101****           CinS1         523-a, others-b/off         0101****           CinS2         533-a, others-b/off         0101****           CinS1         515-a, others-b/off         0101****           YinS2         515-a, others-b/off         0101****           YinS2         531-a, others-b/off         0101****           YinS2         532-a, others-b/off         0101****           VinE4         553-a, others-b/off         0101****           CinS1         511-a, others-b/off         0101****           CinS2         530-a, others-b/off         11111001           CinS2         530-a, others-b/off         11111001           CinS2         530-a, others-b/off         0101****           CinS2         530-a, others-b/off         11111001           CinS2         517-a, others-b/off         0101****           CinS2         511-a		Y/C Frequency	Y <sub>in</sub> 1	S48-a, others-b / off	0101****	way using pin 44,
CinS1         511-a, others-b/off         11111010           CinS2         577-a, others-b/off         11111010           CinS2         523-a, others-b/off         11111001           CinS3         523-a, others-b/off         0101****           CinS1         590-a, others-b/off         0101****           CinS2         523-a, others-b/off         0101****           CinS2         539-a, others-b/off         0101****           YinS2         515-a, others-b/off         0100****           YinS2         539-a, others-b/off         0100****           YinS2         539-a, others-b/off         01111101           YinS2         539-a, others-b/off         01101****           CinS2         530-a, others-b/off         0100****           CinS2         530-a, others-b/off         0101****           CinS2         530-a, others-b/off         0101****           CinS2         530-a, others-b/off         0101****           CinS2         530-a, others-b/off         0101****           CinS2         517-a, others-b/off         0101****           YinS1         59-a, others-b/off         0101****           YinS3         51-a, others-b/off         011111001           YinS3         51-a	15-(1)	Response	VinE3	S <sub>50</sub> -a, others-b / off	0100****	
CinS2         517-a, others-b/off         11111010           Cin1         523-a, others-b/off         11111001           Cin1         540-a, others-b/off         11111001           Cin3         523-a, others-b/off         11111010           Yin51         59-a, others-b/off         11111010           Yin52         538-a, others-b/off         11111010           Yin52         538-a, others-b/off         11111001           Yin53         521-a, others-b/off         11111001           Yin53         521-a, others-b/off         0100****           Vin2         538-a, others-b/off         0101****           Vin2         539-a, others-b/off         11111001           Yin2         531-a, others-b/off         0101****           Cin51         511-a, others-b/off         11111001           Cin52         532-a, others-b/off         11111001           Cin51         59-a, others-b/off         11111001           Yin52         517-a, others-b/off         11111001           Yin53         521-a, others-b/off         11111001           Yin51         59-a , others-b/off         11111001           Yin52         517-a, others-b/off         11111001           Yin53         521-a, others		(Main)	C <sub>in</sub> S1	S11-a, others-b/off	11111011	
CinS3         523-a, others-b/off         11111001           Cin1         540-a, others-b/off         0101****           Cin1         540-a, others-b/off         1111101           Yin51         59-a<, others-b/off			C <sub>in</sub> S2	S17-a, others-b/off	11111010	Measure the amplitude in the same
Cin1         S40-a, others-b/off         0101****           Yin51         59-a         others-b/off         11111010           Yin52         515-a, others-b/off         11111010           Yin52         515-a, others-b/off         11111001           Yin52         538-a, others-b/off         11111001           Yin53         521-a, others-b/off         0101****           Yin53         523-a, others-b/off         0100****           VinE4         533-a, others-b/off         0101****           Vin51         533-a, others-b/off         0101****           Cin52         533-a, others-b/off         0101****           Cin52         530-a, others-b/off         11111010           Cin52         530-a, others-b/off         11111010           Cin53         523-a, others-b/off         11111010           Cin53         523-a, others-b/off         11111001           Yin51         59-a, others-b/off         11111001           Yin53         521-a, others-b/off         11111001           Yin53         521-a, others-b/off         11111001           Yin53         523-a, others-b/off         11111001           Yin53         523-a, others-b/off         11111001           Yin53			C <sub>in</sub> S3	S23-a, others-b / off	11111001	way using pin 42.
YinS1         S9-a         others-b / off         DATA 3           YinS2         S15-a, others-b / off         11111010           YinS2         S15-a, others-b / off         11111010           YinS2         S38-a, others-b / off         11111010           YinS3         S21-a, others-b / off         0101****           YinS3         S21-a, others-b / off         0101****           YinS1         S11-a, others-b / off         11111010           YinS2         S32-a, others-b / off         0101****           CinS1         S11-a, others-b / off         11111010           CinS2         S30-a, others-b / off         11111010           CinS3         S23-a, others-b / off         11111010           CinS2         S30-a, others-b / off         11111010           CinS1         S11-a, others-b / off         11111001           YinS1         S9-a         others-b / off         11111001           YinS2         S15-a, others-b / off         11111001         11111001           YinS1         S9-a         others-b / off         11111001           YinS2         S15-a, others-b / off         11111001           YinS2         S15-a, others-b / off         11111001           YinS2         S11-a			Cin1	S40-a, others-b / off	0101****	
YinS1         S9-a         others-b/off         11111010           YinS2         S15-a, others-b/off         11111001           YinS2         S15-a, others-b/off         11111001           YinS2         S38-a, others-b/off         0100****           Yin22         S38-a, others-b/off         0101****           Yin2         S38-a, others-b/off         0101****           Yin2         S38-a, others-b/off         11111011           CinS1         S11-a, others-b/off         11111011           CinS2         S17-a, others-b/off         11111011           CinS2         S30-a, others-b/off         11111011           CinS3         S23-a, others-b/off         11111011           CinS3         S23-a, others-b/off         11111011           CinS3         S23-a, others-b/off         11111011           YinS1         S9-a         others-b/off         11111011           YinS2         S15-a, others-b/off         11111011         11111011           YinS1         S9-a         others-b/off         11111011           YinS2         S15-a, others-b/off         11111001         11111011           Yin53         S21-a, others-b/off         11111001         YinS1           Yin53					DATA 3	
YinS2         S15-a, others-b/off         11111010           YinS3         S21-a, others-b/off         11111001           YinS3         S21-a, others-b/off         0100****           Yin2         S38-a, others-b/off         0100****           Yin2         S38-a, others-b/off         0100****           Yin2         S38-a, others-b/off         0100****           Yin2         S38-a, others-b/off         0100****           Yin5         S17-a, others-b/off         11111010           Cin52         S17-a, others-b/off         11111010           Cin52         S30-a, others-b/off         11111010           Cin52         S30-a, others-b/off         11111001           Yin51         S9-a, others-b/off         11111001           Yin52         S15-a, others-b/off         11111001           Yin51         S9-a, others-b/off         11111001           Yin51         S9-a, others-b/off         11111001           Yin51         S1-a, others-b/off         11111001           Yin51         S1-a, others-b/off         11111001           Yin52         S17-a, others-b/off         11111001           Yin53         S21-a, others-b/off         11111001           Yin53         S17-a, others-b			Y <sub>in</sub> S1		11111011	
Yin53S21-a, others-b / off11111001Yin2S38-a, others-b / off0100****VinE4S53-a, others-b / off0100****VinE4S53-a, others-b / off11111011Cin51S11-a, others-b / off11111001Cin52S17-a, others-b / off11111001Cin53S23-a, others-b / off11111001Cin53S23-a, others-b / off11111001Cin53S23-a, others-b / off11111001Cin53S23-a, others-b / off11111001Yin51S9-a , others-b / off11111001Yin52S15-a, others-b / off11111001Yin53S21-a, others-b / off11111001Yin53S21-a, others-b / off11111001Yin51S1-a, others-b / off11111001Yin51S1-a, others-b / off11111001Yin51S23-a, others-b / off11111001Yin51S23-a, others-b / off11111001Yin51S1-a, others-b / off11111001Yin53S21-a, others-b / off11111001Yin			Y <sub>in</sub> sz	S15-a, others-b / off	11111010	Measure the amplitude in the same
Yin2         S38-a, others-b / off         0101****           VinE4         533-a, others-b / off         0100****           VinE4         553-a, others-b / off         11111011           CinS1         511-a, others-b / off         11111011           CinS2         517-a, others-b / off         11111011           CinS2         530-a, others-b / off         11111001           CinS3         523-a, others-b / off         11111011           CinS3         523-a, others-b / off         11111011           CinS3         523-a, others-b / off         11111011           YinS1         59-a , others-b / off         11111011           YinS2         515-a, others-b / off         11111011           YinS3         521-a, others-b / off         11111011           YinS3         521-a, others-b / off         11111001           CinS1         511-a, others-b / off         11111001           YinS1         523-a, others-b / off         11111001           YinS3         523-a, others-b / off         11111001           YinS3         521-a, others-b / off         11111001           YinS3         521-a, others-b / off         11111001           YinS3         51-a, others-b / off         111111001		V/C Fragilancy	Y <sub>in</sub> sa	S21-a, others-b / off	11111001	way using pin 34.
VinE4         553-a, others-b/off         0100****           CinS1         511-a, others-b/off         11111011           CinS2         517-a, others-b/off         11111001           CinS2         517-a, others-b/off         11111001           CinS3         523-a, others-b/off         11111001           CinS2         530-a, others-b/off         11111001           Cin2         530-a, others-b/off         11111010           YinS1         59-a, others-b/off         11111010           YinS2         515-a, others-b/off         11111010           YinS2         515-a, others-b/off         11111010           YinS2         511-a, others-b/off         11111010           YinS3         521-a, others-b/off         11111001           YinS3         523-a, others-b/off         11111001           YinS1         51-a, others-b/off         11111001           YinS2         51-a, others-b/off         11111001           YinS2         51-a, others-b/off         11111001           YinS2         51-a, others-b/off         11111001           YinS3         521-a, others-b/off         11111001           YinS2         51-a, others-b/off         11111001           YinS3         51-a, others	15-(2)	Response	Y <sub>in</sub> 2	S38-a, others-b / off	0101****	
CinS1         S11-a, others-b / off         11111011           CinS2         S17-a, others-b / off         11111010           CinS3         S23-a, others-b / off         11111001           CinS3         S23-a, others-b / off         11111001           Cin2         S30-a, others-b / off         11111001           Cin2         S30-a, others-b / off         11111001           YinS1         S9-a, others-b / off         11111001           YinS2         S15-a, others-b / off         11111001           YinS3         S21-a, others-b / off         11111001           YinS1         S9-a , others-b / off         11111001           YinS1         S9-a , others-b / off         11111001           YinS2         S11-a, others-b / off         11111001           YinS3         S21-a, others-b / off         11111001           YinS3         S21-a, others-b / off         11111001           YinS3         S1-a, others-b / off         11111001           YinS3         S1-a, others-b / off         11111001		(Sub)	VinE4	S53-a, others-b / off	0100****	
CinS2         S17-a, others-b / off         11111010           CinS3         S23-a, others-b / off         11111001           CinS3         S23-a, others-b / off         11111001           CinS3         S23-a, others-b / off         11111011           CinS1         S9-a, others-b / off         11111011           YinS1         S9-a, others-b / off         11111011           YinS2         S15-a, others-b / off         11111011           YinS3         S21-a, others-b / off         11111011           YinS3         S21-a, others-b / off         11111011           YinS3         S21-a, others-b / off         11111011           YinS1         S1-a, others-b / off         11111011           CinS2         S17-a, others-b / off         11111011           CinS3         S23-a, others-b / off         11111011           YinS1         S9-a , others-b / off         11111011           YinS2         S15-a, others-b / off         11111011           YinS3         S21-a, others-b / off         11111011           YinS3         S21-a, others-b / off         11111011           YinS3         S11-a, others-b / off         11111011           YinS3         S11-a, others-b / off         11111011		(22.2)	C <sub>in</sub> S1	S11-a, others-b / off	11111011	
CinS3         523-a, others-b / off         11111001           Cin2         530-a, others-b / off         0101****           Cin2         530-a, others-b / off         11111011           Yin51         59-a , others-b / off         11111011           Yin52         515-a, others-b / off         11111011           Yin53         521-a, others-b / off         11111011           Yin53         521-a, others-b / off         11111001           Cin51         511-a, others-b / off         11111001           Cin52         517-a, others-b / off         11111001           Cin53         523-a, others-b / off         11111001           Cin53         523-a, others-b / off         11111001           Cin53         523-a, others-b / off         11111001           Yin51         59-a , others-b / off         11111001           Yin52         515-a, others-b / off         11111001           Yin53         521-a, others-b / off         11111001           Yin53         521-a, others-b / off         11111001           Yin53         511-a, others-b / off         11111001           Yin53         511-a, others-b / off         11111001           Yin53         517-a, others-b / off         111111010			C <sub>in</sub> sz	S17-a, others-b/off	11111010	Measure the amplitude in the same
Cin2         530-a, others-b/off         0101****           Yin51         59-a         others-b/off         0101****           Yin52         515-a, others-b/off         11111010           Yin53         521-a, others-b/off         11111010           Yin53         521-a, others-b/off         11111001           Yin53         521-a, others-b/off         11111001           Yin53         521-a, others-b/off         11111001           Cin52         517-a, others-b/off         11111001           Cin53         523-a, others-b/off         11111001           Cin53         523-a, others-b/off         11111001           Yin51         59-a         others-b/off         11111001           Yin53         521-a, others-b/off         11111001           Yin53         511-a, others-b/off         11111001           Yin53         517-a, others-b/off         11111001 <td< td=""><td></td><td></td><td>C<sub>in</sub>S3</td><td>S23-a, others-b / off</td><td>11111001</td><td>way using pin 32.</td></td<>			C <sub>in</sub> S3	S23-a, others-b / off	11111001	way using pin 32.
YinS1       S9-a       others-b / off       DATA 2         YinS2       S15-a, others-b / off       11111011         YinS2       S15-a, others-b / off       11111001         YinS3       S21-a, others-b / off       11111001         YinS3       S21-a, others-b / off       11111011         CinS1       S11-a, others-b / off       11111001         CinS2       S17-a, others-b / off       11111001         CinS3       S23-a, others-b / off       11111001         YinS1       S9-a , others-b / off       11111001         YinS2       S15-a, others-b / off       11111001         YinS3       S21-a, others-b / off       11111001         CinS1       S11-a, others-b / off       11111001         YinS3       S21-a, others-b / off       11111001         CinS2       S17-a, others-b / off       11111001         CinS3       S23-a, others-b / off       11111001         CinS3       S23-a, others-b / off       11111001			C <sub>in</sub> 2	S30-a, others-b / off	0101****	
YinS1         S9-a         others-b / off         11111011           YinS2         S15-a, others-b / off         11111010           YinS3         S21-a, others-b / off         11111001           YinS3         S21-a, others-b / off         11111001           YinS3         S21-a, others-b / off         11111001           YinS3         S1-a, others-b / off         11111001           CinS2         S17-a, others-b / off         11111001           CinS3         S23-a, others-b / off         11111001           CinS3         S23-a, others-b / off         11111001           YinS1         S9-a<, others-b / off					DATA 2	
YinS2         S15-a, others-b/off         11111010           YinS3         S21-a, others-b/off         11111001           YinS3         S21-a, others-b/off         11111001           CinS1         S11-a, others-b/off         11111011           CinS2         S17-a, others-b/off         11111011           CinS2         S17-a, others-b/off         11111001           CinS3         S23-a, others-b/off         11111001           YinS1         S9-a         others-b/off         11111001           YinS2         S15-a, others-b/off         11111010           YinS3         S21-a, others-b/off         11111010           YinS3         S21-a, others-b/off         11111001           YinS3         S21-a, others-b/off         11111001           YinS3         S21-a, others-b/off         11111001           YinS3         S21-a, others-b/off         11111001           CinS1         S11-a, others-b/off         11111001           CinS3         S23-a, others-b/off         11111001           CinS3         S23-a, others-b/off         11111001           CinS3         S23-a, others-b/off         11111001			Y <sub>in</sub> s1	Sg-a , others-b / off	11111011	
YinS3         S21-a.         others-b / off         11111001           CinS1         S11-a.         others-b / off         11111011           CinS2         S17-a.         others-b / off         11111011           CinS2         S17-a.         others-b / off         11111010           CinS3         S23-a.         others-b / off         11111001           CinS3         S23-a.         others-b / off         11111001           YinS1         S9-a         others-b / off         11111001           YinS2         S15-a.         others-b / off         11111010           YinS3         S21-a.         others-b / off         11111001           CinS1         S11-a.         others-b / off         11111001           CinS2         S17-a.         others-b / off         11111001           CinS3         S23-a.         others-b / off         11111001		S Video Frequency	Y <sub>in</sub> s2	S <sub>15</sub> -a, others-b / off	11111010	
CinS1         S11-a, others-b/off         11111011           CinS2         S17-a, others-b/off         11111010           CinS3         S23-a, others-b/off         11111001           CinS3         S23-a, others-b/off         11111001           CinS3         S23-a, others-b/off         11111001           YinS1         S9-a, others-b/off         11111001           YinS2         S15-a, others-b/off         11111001           YinS3         S21-a, others-b/off         11111001           YinS3         S21-a, others-b/off         11111001           YinS2         S11-a, others-b/off         11111001           CinS1         S11-a, others-b/off         11111001           CinS1         S11-a, others-b/off         11111001           CinS2         S17-a, others-b/off         11111001           CinS3         S23-a, others-b/off         11111001	16-(1)	Response	Y <sub>in</sub> s3	S <sub>21</sub> -a, others-b / off	11111001	Intessure the amplitude in the same
CinS2         S17-a, others-b/off         11111010           CinS3         S23-a, others-b/off         11111001           CinS3         S23-a, others-b/off         11111001           YinS1         S9-a         others-b/off         11111011           YinS2         S15-a, others-b/off         11111010         11111010           YinS3         S21-a, others-b/off         11111010         11111010           YinS3         S21-a, others-b/off         11111001         11111001           CinS1         S11-a, others-b/off         11111001         11111001           CinS2         S17-a, others-b/off         11111001         11111001           CinS3         S23-a, others-b/off         11111001         11111001		(Main)	C <sub>in</sub> s1	S11-a, others-b / off	11111011	way using pin 40.
CinS3         S23-a, others-b/off         11111001           YinS1         S9-a         , others-b/off         11111011           YinS2         S15-a, others-b/off         11111011           YinS3         S21-a, others-b/off         11111001           YinS3         S21-a, others-b/off         11111001           YinS3         S21-a, others-b/off         11111001           YinS2         S17-a, others-b/off         11111001           CinS1         S17-a, others-b/off         11111001           CinS2         S17-a, others-b/off         11111001           CinS3         S23-a, others-b/off         11111001			C <sub>in</sub> S2		11111010	
YinS1         S9-a         others-b / off         DATA 3           YinS1         S9-a         others-b / off         11111011           YinS2         S15-a         others-b / off         11111010           YinS3         S21-a         others-b / off         11111001           YinS3         S21-a         others-b / off         11111001           YinS1         S11-a         others-b / off         11111001           CinS1         S11-a         others-b / off         11111011           CinS3         S23-a         others-b / off         11111001			C <sub>in</sub> S3		11111001	
YinS1         S9-a         others-b / off         11111011           YinS2         S15-a, others-b / off         11111010           YinS3         S21-a, others-b / off         11111001           YinS3         S21-a, others-b / off         11111001           YinS1         S11-a, others-b / off         11111001           CinS1         S11-a, others-b / off         11111011           CinS2         S17-a, others-b / off         11111010           CinS3         S23-a, others-b / off         11111001					DATA 3	
YinS2         S15-a, others-b/off         11111010           YinS3         S21-a, others-b/off         11111001           YinS3         S21-a, others-b/off         11111001           CinS1         S11-a, others-b/off         11111011           CinS2         S17-a, others-b/off         11111011           CinS3         S23-a, others-b/off         11111001			Y <sub>in</sub> s1	Sg-a , others-b / off	11111011	
YinS3         521-a, others-b/off         11111001           CinS1         511-a, others-b/off         11111011           CinS2         517-a, others-b/off         11111010           CinS3         523-a, others-b/off         11111001		S Video Frequency	Y <sub>in</sub> sz	S15-a, others-b / off	11111010	Messure the smalltude in the same
CinS1         S11-a, others-b/off         11111011           CinS2         S17-a, others-b/off         11111010           CinS3         S23-a, others-b/off         11111001	16-(2)	Response	Y <sub>in</sub> sa	S21-a, others-b/off	11111001	Intersule title attripritude in the same
S17-a, others-b / off S23-a, others-b / off		(Sub)	C <sub>in</sub> S1	S11-a, others-b/off	11111011	way usirig pin 30.
S23-a, others-b/off			C <sub>in</sub> s2	S17-a, others-b / off	11111010	
			C <sub>in</sub> S3		11111001	

			MEASI	<b>JRING CONDITIONS (UN</b>	<b>VLESS OTHE</b>	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC} = 9V$ , Ta = 25 $\pm 3^{\circ}$ C)
NOTE	ITEM			SW & VR MODE		
				SW MODE	DATA 2	MEASUREMENT METHOD
		Y <sub>in</sub> S1	S9-a	, S47-on, others-b / off	11111011	
	S Video Frequency	Y <sub>in</sub> sz	S15-a	, S47-on, others-b/off	11111010	
16_(3)	16_(3) Response	Y <sub>in</sub> s3	S21-a	, S47-on, others-b / off	11111001	Measure the amplitude in the same
2.	(Clamp Off)	C <sub>in</sub> s1	511-a	, S47-on, others-b / off	11111011	way using pin 46.
	(Main)	C <sub>in</sub> sz	S17-a	, S47-on, others-b / off	11111010	
		C <sub>in</sub> S3	523-a	, S47-on, others-b / off	11111001	
					DATA 3	
	S Video Fragilancy	Y <sub>in</sub> s1	Sg-a	, S37-on, others-b / off	11111011	
	Resnance	Y <sub>in</sub> s2	S <sub>15</sub> -a	, S37-on, others-b / off	11111010	Mostrico the smalltride in the second
16-(4)	16-(4) (Clamp Off)	Y <sub>in</sub> sa	521-a	, S37-on, others-b / off	11111001	Intersure the amplitude in the same
	(Sub)	C <sub>in</sub> S1	511-a	, S37-on, others-b / off	11111011	way using pin so.
		C <sub>in</sub> S2	517-a	, S37-on, others-b / off	11111010	
		C <sub>in</sub> S3	523-a	, S37-on, others-b / off	11111001	
					DATA 2	
		V <sub>in</sub> E2	S2-a	, others-b / off	10100110	
		V <sub>in</sub> E1	S5-a	, others-b / off	10100111	
		V <sub>in</sub> S1	S7A-a	, others-b / off	10100011	Measure the amplitude in the same
		V <sub>in</sub> s2	513A-a,	, others-b / off	10100010	way using pin 44.
		V <sub>in</sub> sa	S19A-a, i	, others-b / off	10100001	
	B/W Mode	V <sub>in</sub> E3	550-a	, others-b / off	10100101	
17-(1)	17-(1) Frequency Response	V <sub>in</sub> E4	553-a	, others-b / off	10100100	
	(Main)	V <sub>in</sub> E2	S2-a	, others-b / off	10100110	
		VinE1	S5-a	, others-b / off	10100111	
		V <sub>in</sub> S1	S7A-a	, others-b / off	10100011	
		V <sub>in</sub> s2	S13A-a	S13A-a, others-b/off	10100010	Measure the amplitude in the same
		Vin <sup>S3</sup>	S19A-a	519A-a, others-b/off	10100001	way using pin 42.
		V <sub>in</sub> E3	S50-a	, others-b / off	10100101	
		V <sub>in</sub> E4	S <sub>53</sub> -a	, others-b / off	10100100	

MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, V<sub>CC</sub> = 9V, Ta = 25±3°C)

SW & VR MODE

ITEM

NOTE

17-(2) Frequency Response (Sub) B/W Mode

MEASUREMENT METHOD

			the same							the same				0 on pin 46	ls.		on pin 46	from the	issuming	vel = 100%		la					the same
		M	ivieasure the amplitude in	way using pin 34.						Neasure the amplitude in	way using pin 32.			(1) Measure the voltage V <sub>C</sub>	during no-signal interva	(2) Input a V1 NTSC signal.	(3) Observe the waveform	and find the V <sub>CO</sub> level	sync tip in percentage a	that the SYNC signal lev		SYNC sign	100%	 	Clamp level (%		Measure the V <sub>CO</sub> level in the same way using pin 36.
10100110	10100111	10100011	10100010	10100001	10100101	10100100	10100110	10100111	10100011	10100010	10100001	10100101	10100100	DATA 2		•										DATA 3	***0110
•	S5-a , others-b / off	S7A-a , others-b / off	S13A-a, others-b / off	S19A-a, others-b/off	S50-a , others-b / off	S53-a , others-b / off	52-a , others-b / off	S5-a , others-b / off	S7A-a , others-b / off	S13A-a, others-b / off	519A-a, others-b / off	S50-a , others-b / off	S53-a , others-b / off	S2-a , others-b / off													V <sub>out</sub> 2 Output S2-a, others-b / off
VinE2	V <sub>in</sub> E1	V <sub>in</sub> S1	V <sub>in</sub> S2	V <sub>in</sub> S3	V <sub>in</sub> E3	VinE4	V <sub>in</sub> E2							V <sub>out</sub> 1 Output													Vout2 Output
	52-a , others-b / off 1	S2-a , others-b / off S5-a , others-b / off	SV MODE         DATA 3           52-a         , others-b/off         10100110           55-a         , others-b/off         10100111           57A-a         , others-b/off         10100011	Symmode         DALA 3           \$2-a         others-b/off         10100110           \$5-a         others-b/off         10100111           \$7A-a         others-b/off         10100011           \$13A-a         others-b/off         10100010	Symmode         DALA 3           52-a         , others-b / off         10100110           55-a         , others-b / off         10100111           57A-a         , others-b / off         10100011           513A-a, others-b / off         10100010           519A-a, others-b / off         10100010	Symmode         DALA 3           52-a         , others-b / off         10100110           55-a         , others-b / off         10100111           57A-a         , others-b / off         10100011           513A-a, others-b / off         10100010           519A-a, others-b / off         10100010           519A-a, others-b / off         10100010           519A-a, others-b / off         10100010	500 MODE       041A 3         52-a       others-b/off       10100110         55-a       others-b/off       10100111         57A-a       others-b/off       10100011         57A-a       others-b/off       10100011         57A-a       others-b/off       10100011         57A-a       others-b/off       10100010         513A-a, others-b/off       10100010         550-a       others-b/off       10100101         553-a       others-b/off       10100101	S2-a       others-b/off       UALA 3         \$5-a       others-b/off       10100110         \$5-a       others-b/off       10100111         \$7A-a       others-b/off       10100011         \$73A-a       others-b/off       10100011         \$73A-a       others-b/off       10100010         \$13A-a       others-b/off       10100010         \$19A-a       others-b/off       10100010         \$50-a       others-b/off       10100101         \$53-a       others-b/off       10100100         \$52-a       others-b/off       10100100	52-a       , others-b / off       10100110         52-a       , others-b / off       10100111         57-a       , others-b / off       10100011         57A-a       , others-b / off       10100011         513A-a       , others-b / off       10100010         513A-a, others-b / off       10100010         519A-a, others-b / off       10100010         550-a       , others-b / off       10100101         553-a       , others-b / off       10100101         52-a       , others-b / off       10100101         55-a       , others-b / off       10100101         55-a       , others-b / off       10100101	Symmode       Jaw Mode       Jan A 3         52-a       others-b/off       10100110         55-a       others-b/off       10100111         57A-a       others-b/off       10100011         513A-a       others-b/off       10100011         513A-a       others-b/off       10100010         519A-a       others-b/off       10100010         550-a       others-b/off       10100101         553-a       others-b/off       10100110         52-a       others-b/off       10100110         55-a       others-b/off       10100110         57A-a       others-b/off       10100110	52-a       , others-b / off       10100110         55-a       , others-b / off       10100111         57A-a       , others-b / off       10100011         513A-a       , others-b / off       10100010         519A-a       , others-b / off       10100010         513A-a       , others-b / off       10100010         519A-a       , others-b / off       10100010         550-a       , others-b / off       10100101         553-a       , others-b / off       10100101         55-a       , others-b / off       10100110         57A-a       , others-b / off       10100110         57A-a       , others-b / off       10100110         513A-a, others-b / off       10100011         513A-a, others-b / off       10100010	52-a       , others-b / off       10100110         55-a       , others-b / off       10100111         57A-a       , others-b / off       10100011         57A-a       , others-b / off       10100011         513A-a       , others-b / off       10100010         513A-a       , others-b / off       10100010         513A-a       , others-b / off       10100010         550-a       , others-b / off       10100101         553-a       , others-b / off       10100101         57A-a       , others-b / off       10100111         513A-a, others-b / off       10100011         513A-a, others-b / off       10100011         513A-a, others-b / off       10100010	Symmode       Jave Mode         S2-a       others-b / off       10100110         S5-a       others-b / off       101000111         S7A-a       others-b / off       101000111         S13A-a       others-b / off       10100010         S13A-a       others-b / off       10100010         S13A-a       others-b / off       10100010         S50-a       others-b / off       10100101         S52-a       others-b / off       10100101         S2-a       others-b / off       10100101         S2-a       others-b / off       10100101         S7A-a       others-b / off       10100101         S7A-a       others-b / off       10100101         S7A-a       others-b / off       101000101         S7A-a       others-b / off       101000101         S19A-a, others-b / off       101000101         S19A-a, others-b / off       101000101         S50-a       others-b / off       101000101	Symmode       Jave Mode         S2-a       others-b / off       10100110         S5-a       others-b / off       101000111         S7A-a       others-b / off       101000111         S13A-a       others-b / off       101000101         S13A-a       others-b / off       101000101         S13A-a       others-b / off       101000101         S50-a       others-b / off       10100101         S52-a       others-b / off       10100101         S53-a       others-b / off       10100110         S5-a       others-b / off       10100010         S13A-a, others-b / off       10100010         S50-a       others-b / off       10100010         S53-a       others-b / off       10100010         S53-a       others-b / off       10100010	Symmode       Jave Mode         52-a       others-b/off       10100110         55-a       others-b/off       10100011         57A-a       others-b/off       10100011         513A-a       others-b/off       10100011         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         553-a       others-b/off       10100101         552-a       others-b/off       10100101         552-a       others-b/off       10100101         57A-a       others-b/off       10100110         57A-a       others-b/off       10100011         57A-a       others-b/off       10100010         573-a       others-b/off       10100010         572-a       others-b/off       10100010         573-a       others-b/off       10100100         573-a       others-b/off       10100000         573-a	Symbols       Jay mode       Jay mode         52-a       others-b/off       10100110         55-a       others-b/off       10100011         57A-a       others-b/off       10100011         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         519A-a       others-b/off       10100010         552-a       others-b/off       10100100         552-a       others-b/off       10100101         552-a       others-b/off       10100101         57A-a       others-b/off       10100101         572-a       others-b/off       10100101         572-a       others-b/off       10100010         513A-a, others-b/off       10100010         513A-a, others-b/off       10100010         519A-a, others-b/off       10100010         553-a       others-b/off       10100010         553-a       others-b/off       10100010         553-a       others-b/off       10100010         553-a       others-b/off       10100101         553-a       others-b/off       10100101         553-a       others-b/	SymmoneJave Model $52-a$ others-b/off10100110 $55-a$ others-b/off10100011 $57A-a$ others-b/off10100011 $513A-a$ others-b/off10100010 $513A-a$ others-b/off10100010 $519A-a$ others-b/off10100010 $552-a$ others-b/off10100101 $553-a$ others-b/off10100101 $55-a$ others-b/off10100101 $55-a$ others-b/off10100110 $57A-a$ others-b/off10100010 $513A-a$ others-b/off10100101 $52-a$ others-b/off10100100 $52-a$ others-b/off $10100100$ $52-a$	Symmode       Jave Mode       DALA 3         52-a       others-b/off       10100110         57A-a       others-b/off       10100011         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         519A-a       others-b/off       10100010         519A-a       others-b/off       10100010         552-a       others-b/off       10100101         55-a       others-b/off       10100101         55-a       others-b/off       10100101         57A-a       others-b/off       10100010         553-a       others-b/off       10100101         553-a       others-b/off       10100101	Symmode       Jave Mode         52-a       others-b/off       10100110         55-a       others-b/off       10100011         57A-a       others-b/off       10100011         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         552-a       others-b/off       10100101         55-a       others-b/off       10100101         55-a       others-b/off       10100101         57A-a       others-b/off       10100111         57A-a       others-b/off       10100110         573-a       others-b/off       10100110         572-a       others-b/off       10100010         573-a       others-b/off       10100101         573-a       others-b/off       10100101         573-a       others-b/off       101000101         57-a	Symmode       DALA       January $52-a$ others-b / off       10100110 $55-a$ others-b / off       10100011 $57-a$ others-b / off       10100010 $513A-a$ others-b / off       10100010 $513A-a$ others-b / off       10100010 $519A-a$ others-b / off       10100010 $519A-a$ others-b / off       10100101 $55-a$ others-b / off       10100101 $55-a$ others-b / off       10100110 $55-a$ others-b / off       10100110 $55-a$ others-b / off       10100010 $57A-a$ others-b / off       10100010 $57A-a$ others-b / off       10100010 $519A-a$ others-b / off       10100010 $513A-a$ others-b / off       10100010 $553-a$ others-b / off       10100010 $553-a$ others-b / off       10100010 $553-a$ others-b / off       10100100 $553-a$ others-b / off       10100100 $553-a$ others-b / off       10100010 $553-a$ <td>Jaw MODE       Jaw MODE       DALA 3         <math>52-a</math>, others-b/off       10100110         <math>57A-a</math>, others-b/off       10100011         <math>513A-a</math>, others-b/off       10100010         <math>552-a</math>, others-b/off       10100101         <math>55-a</math>, others-b/off       10100110         <math>57A-a</math>, others-b/off       10100010         <math>57A-a</math>, others-b/off       10100010         <math>573-a</math>, others-b/off       10100010         <math>553-a</math>, others-b/off       10100101         <math>552-a</math>, others-b/off       10100101         <math>5</math></td> <td>Symmode       Data 3         <math>52-a</math>       others-b/off       10100110         <math>55-a</math>       others-b/off       10100011         <math>57-a</math>       others-b/off       10100011         <math>513A-a</math>       others-b/off       10100010         <math>513A-a</math>       others-b/off       10100010         <math>519A-a</math>       others-b/off       10100010         <math>519A-a</math>       others-b/off       10100101         <math>55-a</math>       others-b/off       10100101         <math>55-a</math>       others-b/off       10100101         <math>55-a</math>       others-b/off       10100101         <math>55-a</math>       others-b/off       10100101         <math>57A-a</math>       others-b/off       10100010         <math>57-a</math>       others-b/off       10100010         <math>519A-a</math>       others-b/off       10100010         <math>513A-a</math>       others-b/off       10100010         <math>519A-a</math>       others-b/off       10100010         <math>519A-a</math>       others-b/off       10100010         <math>52-a</math>       others-b/off       10100010         <math>52-a</math>       others-b/off       10100100         <math>52-a</math>       others-b/off       <math>10100100</math> <math>52-a</math>       others-b/off       <math>101000100</math></td> <td>Symmode       DALA       January         52-a       others-b/off       10100110         55-a       others-b/off       10100011         57A-a       others-b/off       10100011         519A-a       others-b/off       10100010         519A-a       others-b/off       10100010         519A-a       others-b/off       10100010         519A-a       others-b/off       10100101         552-a       others-b/off       10100110         55-a       others-b/off       10100110         55-a       others-b/off       10100110         57A-a       others-b/off       10100101         57a-a       others-b/off       10100101         57a-a       others-b/off       10100010         57a-a       others-b/off       10100010         57a-a       others-b/off       10100010         553-a       others-b/off       10100010         553-a       others-b/off       10100101         553-a       others-b/off       10100101         553-a       others-b/off       10100101         553-a       others-b/off       10100101         553-a       others-b/off       10100100         <t< td=""><td>Jaw MODE       DALA 3         <math>52-a</math> , others-b / off       10100110         <math>57A-a</math> , others-b / off       10100011         <math>57A-a</math> , others-b / off       10100010         <math>513A-a</math> , others-b / off       10100101         <math>552-a</math> , others-b / off       10100110         <math>552-a</math> , others-b / off       10100010         <math>57A-a</math> , others-b / off       10100010         <math>57A-a</math> , others-b / off       10100010         <math>573-a</math> , others-b / off       10100010         <math>553-a</math> , others-b / off       10100010         <math>552-a</math> , others-b / off       10100010         <math>552-a</math> , others-b / off       10100101         <math>552-a</math> , others-b / off       10100101         <math>52-a</math> , others-b / off       10100101   </td><td>Jaw MODE       DALA 3         <math>52-a</math> , others-b / off       10100111         <math>57A-a</math> , others-b / off       10100011         <math>57A-a</math> , others-b / off       10100010         <math>513A-a</math> , others-b / off       10100101         <math>552-a</math> , others-b / off       10100110         <math>552-a</math> , others-b / off       10100010         <math>57A-a</math> , others-b / off       10100010         <math>57A-a</math> , others-b / off       10100010         <math>573-a</math> , others-b / off       10100001         <math>573-a</math> , others-b / off       10100000         <math>573-a</math> , others-b / off       &lt;</td><td>Jaw MODE       Jay MODE       DALA 3         52-a       others-b/off       10100110         57A-a       others-b/off       10100011         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         553-a       others-b/off       10100101         55-a       others-b/off       10100101         55-a       others-b/off       10100101         55-a       others-b/off       10100101         57A-a       others-b/off       10100101         573-a       others-b/off       10100101         573-a       others-b/off       10100010         573-a       others-b/off       10100010         553-a       others-b/off       10100010         553-a       others-b/off       10100101         553-a       others-b/off       10100100</td><td>Symmode       Jay mode         52-a       others-b/off       10100110         55-a       others-b/off       10100011         57A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         553-a       others-b/off       10100100         552-a       others-b/off       10100111         552-a       others-b/off       10100101         57A-a       others-b/off       10100010         57-a       others-b/off       10100010         57-a       others-b/off       10100010         57-a       others-b/off       10100010         573-a       others-b/off       10100010         573-a       others-b/off       10100010         573-a       others-b/off       10100001         573-a       others-b/off       10100001         573-a       others-b/off       10100001         573-a       others-b/off       10100001         553-a       others-b/off       10100001         553-a       others-b/off       10100001         553-a       <t< td=""></t<></td></t<></td>	Jaw MODE       Jaw MODE       DALA 3 $52-a$ , others-b/off       10100110 $57A-a$ , others-b/off       10100011 $513A-a$ , others-b/off       10100010 $552-a$ , others-b/off       10100101 $55-a$ , others-b/off       10100110 $57A-a$ , others-b/off       10100010 $57A-a$ , others-b/off       10100010 $573-a$ , others-b/off       10100010 $553-a$ , others-b/off       10100101 $552-a$ , others-b/off       10100101 $5$	Symmode       Data 3 $52-a$ others-b/off       10100110 $55-a$ others-b/off       10100011 $57-a$ others-b/off       10100011 $513A-a$ others-b/off       10100010 $513A-a$ others-b/off       10100010 $519A-a$ others-b/off       10100010 $519A-a$ others-b/off       10100101 $55-a$ others-b/off       10100101 $55-a$ others-b/off       10100101 $55-a$ others-b/off       10100101 $55-a$ others-b/off       10100101 $57A-a$ others-b/off       10100010 $57-a$ others-b/off       10100010 $519A-a$ others-b/off       10100010 $513A-a$ others-b/off       10100010 $519A-a$ others-b/off       10100010 $519A-a$ others-b/off       10100010 $52-a$ others-b/off       10100010 $52-a$ others-b/off       10100100 $52-a$ others-b/off $10100100$ $52-a$ others-b/off $101000100$	Symmode       DALA       January         52-a       others-b/off       10100110         55-a       others-b/off       10100011         57A-a       others-b/off       10100011         519A-a       others-b/off       10100010         519A-a       others-b/off       10100010         519A-a       others-b/off       10100010         519A-a       others-b/off       10100101         552-a       others-b/off       10100110         55-a       others-b/off       10100110         55-a       others-b/off       10100110         57A-a       others-b/off       10100101         57a-a       others-b/off       10100101         57a-a       others-b/off       10100010         57a-a       others-b/off       10100010         57a-a       others-b/off       10100010         553-a       others-b/off       10100010         553-a       others-b/off       10100101         553-a       others-b/off       10100101         553-a       others-b/off       10100101         553-a       others-b/off       10100101         553-a       others-b/off       10100100 <t< td=""><td>Jaw MODE       DALA 3         <math>52-a</math> , others-b / off       10100110         <math>57A-a</math> , others-b / off       10100011         <math>57A-a</math> , others-b / off       10100010         <math>513A-a</math> , others-b / off       10100101         <math>552-a</math> , others-b / off       10100110         <math>552-a</math> , others-b / off       10100010         <math>57A-a</math> , others-b / off       10100010         <math>57A-a</math> , others-b / off       10100010         <math>573-a</math> , others-b / off       10100010         <math>553-a</math> , others-b / off       10100010         <math>552-a</math> , others-b / off       10100010         <math>552-a</math> , others-b / off       10100101         <math>552-a</math> , others-b / off       10100101         <math>52-a</math> , others-b / off       10100101   </td><td>Jaw MODE       DALA 3         <math>52-a</math> , others-b / off       10100111         <math>57A-a</math> , others-b / off       10100011         <math>57A-a</math> , others-b / off       10100010         <math>513A-a</math> , others-b / off       10100101         <math>552-a</math> , others-b / off       10100110         <math>552-a</math> , others-b / off       10100010         <math>57A-a</math> , others-b / off       10100010         <math>57A-a</math> , others-b / off       10100010         <math>573-a</math> , others-b / off       10100001         <math>573-a</math> , others-b / off       10100000         <math>573-a</math> , others-b / off       &lt;</td><td>Jaw MODE       Jay MODE       DALA 3         52-a       others-b/off       10100110         57A-a       others-b/off       10100011         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         553-a       others-b/off       10100101         55-a       others-b/off       10100101         55-a       others-b/off       10100101         55-a       others-b/off       10100101         57A-a       others-b/off       10100101         573-a       others-b/off       10100101         573-a       others-b/off       10100010         573-a       others-b/off       10100010         553-a       others-b/off       10100010         553-a       others-b/off       10100101         553-a       others-b/off       10100100</td><td>Symmode       Jay mode         52-a       others-b/off       10100110         55-a       others-b/off       10100011         57A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         553-a       others-b/off       10100100         552-a       others-b/off       10100111         552-a       others-b/off       10100101         57A-a       others-b/off       10100010         57-a       others-b/off       10100010         57-a       others-b/off       10100010         57-a       others-b/off       10100010         573-a       others-b/off       10100010         573-a       others-b/off       10100010         573-a       others-b/off       10100001         573-a       others-b/off       10100001         573-a       others-b/off       10100001         573-a       others-b/off       10100001         553-a       others-b/off       10100001         553-a       others-b/off       10100001         553-a       <t< td=""></t<></td></t<>	Jaw MODE       DALA 3 $52-a$ , others-b / off       10100110 $57A-a$ , others-b / off       10100011 $57A-a$ , others-b / off       10100010 $513A-a$ , others-b / off       10100101 $552-a$ , others-b / off       10100110 $552-a$ , others-b / off       10100010 $57A-a$ , others-b / off       10100010 $57A-a$ , others-b / off       10100010 $573-a$ , others-b / off       10100010 $553-a$ , others-b / off       10100010 $552-a$ , others-b / off       10100010 $552-a$ , others-b / off       10100101 $552-a$ , others-b / off       10100101 $52-a$ , others-b / off       10100101	Jaw MODE       DALA 3 $52-a$ , others-b / off       10100111 $57A-a$ , others-b / off       10100011 $57A-a$ , others-b / off       10100010 $513A-a$ , others-b / off       10100101 $552-a$ , others-b / off       10100110 $552-a$ , others-b / off       10100010 $57A-a$ , others-b / off       10100010 $57A-a$ , others-b / off       10100010 $573-a$ , others-b / off       10100001 $573-a$ , others-b / off       10100000 $573-a$ , others-b / off       <	Jaw MODE       Jay MODE       DALA 3         52-a       others-b/off       10100110         57A-a       others-b/off       10100011         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         553-a       others-b/off       10100101         55-a       others-b/off       10100101         55-a       others-b/off       10100101         55-a       others-b/off       10100101         57A-a       others-b/off       10100101         573-a       others-b/off       10100101         573-a       others-b/off       10100010         573-a       others-b/off       10100010         553-a       others-b/off       10100010         553-a       others-b/off       10100101         553-a       others-b/off       10100100	Symmode       Jay mode         52-a       others-b/off       10100110         55-a       others-b/off       10100011         57A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         513A-a       others-b/off       10100010         553-a       others-b/off       10100100         552-a       others-b/off       10100111         552-a       others-b/off       10100101         57A-a       others-b/off       10100010         57-a       others-b/off       10100010         57-a       others-b/off       10100010         57-a       others-b/off       10100010         573-a       others-b/off       10100010         573-a       others-b/off       10100010         573-a       others-b/off       10100001         573-a       others-b/off       10100001         573-a       others-b/off       10100001         573-a       others-b/off       10100001         553-a       others-b/off       10100001         553-a       others-b/off       10100001         553-a <t< td=""></t<>

Clamp Level

18

TA8851BN/CN-32

32/46

2000-03-03

1TE ITE 19 Audio L Dynamic Range	Lin E1 Lin E1 Lin S1 Lin S3 Lin E3 Lin E3 Lin E3 Lin E3		SW & VR MODE SW MODE S1-a , others-b / off S4-a , others-b / off S8-a , others-b / off S14-a , others-b / off S20-a , others-b / off S51-a , others-b / off S54A-a, others-b / off	DATA 2 ****0110 ****0111 ****00111 ****0011 ****0010	SW & VR MODEDATA 2MEASUREMENT METHODSW MODEDATA 2MEASUREMENT METHODS1-a, others-b / off****0110S4-a, others-b / off****0111S8-a, others-b / off****0011S14-a, others-b / off****0010S20-a, others-b / off****0010S20-a, others-b / off****0010S20-a, others-b / off****0010S20-a, others-b / off****0000S20-a, others-b / off****0000S20-a
	۲: 	51-a 54-a 58-a 58-4 514-a 520-a 551-a 554A-a	SW MODE others-b / off others-b / off others-b / off others-b / off others-b / off others-b / off	DATA 2 ****0110 ****0111 ****0011 ****0010 ****0001	<ul> <li>MEASUREMENT METHOU</li> <li>(1) V2 1kHz, amplitude-variable input.</li> <li>(2) For each, measure the amplitude of V1 at which the waveform on pin 45 is distorted.</li> </ul>
······································	LinE2 LinE1 LinS2 LinS3 LinE3 LinE3	51-a 54-a 58-a 514-a 520-a 551-a 554A-a	others-b / off others-b / off others-b / off others-b / off others-b / off others-b / off	****0110 ****0111 ****0011 ****0010 ****0010	<ol> <li>V2 1kHz, amplitude-variable input.</li> <li>For each, measure the amplitude of V1 at which the waveform on pin 45 is distorted.</li> </ol>
	Lin E1 Lin S1 Lin S2 Lin S3 Lin E3	54-a 58-a 514-a 520-a 551-a 554A-a	others-b / off others-b / off others-b / off others-b / off others-b / off	****0111 ****0011 ****0010 ****0010 ****0001	<ul> <li>(1) V<sub>2</sub> 1kHz, amplitude-variable input.</li> <li>(2) For each, measure the amplitude of V<sub>1</sub> at which the waveform on pin 45 is distorted.</li> </ul>
	LinS1 LinS2 LinS3 LinE3 LinE3	58-a 514-a 520-a 551-a 554A-a	others-b / off others-b / off others-b / off others-b / off others-b / off	****0011 ****0010 ****0001	<ul> <li>(2) For each, measure the amplitude of V<sub>1</sub> at which the waveform on pin</li> <li>45 is distorted.</li> </ul>
	LinS2 LinS3 LinE4 LinE4	514-a 520-a 551-a 554A-a	others-b / off others-b / off others-b / off others-b / off	****0010 ****0001 ****0001	V1 at which the waveform on pin 45 is distorted.
	LinS3 LinE3 LinE4		others-b / off others-b / off others-b / off	****0001 ****0101	45 is distorted.
	LinE3 LinE4		others-b / off others-b / off	****0101	
	LinE4		others-b / off		$(nara + n00 = 0 : mute 0 \pi)$
				****0100	2
				DATA 3	
	LinE2	S1-a	, others-b / off	****0110	
		S4-a , c	others-b / off	****0111	
		58-a , c	others-b / off	****0011	Measure the amplitude in the same
	LinS2	S14-a , c	, others-b / off	****0010	way using pin 35.
	L <sub>in</sub> sa	S20-a , c	, others-b / off	****0001	(Data 1 D <sub>01</sub> =0 : mute off)
	LinE3	S51-a	, others-b / off	****0101	
	LinE4		554A-a, others-b / off	****0100	
-				DATA 2, 3	
			L		Measure the amplitude in the same
	LinE1	S4-a , c	S4-a , others-b / off	*****	******* way using pin 41.
					(Data 1 $D_{02} = 0$ : mute off)

NOTEITEMSw & VR MODEDATA 2MEASUREMENT METHOD $R_{In}E2$ $S_3-a$ , others-b/off $xxxx0110$ MEASUREMENT METHOD $R_{In}E1$ $S_6-a$ , others-b/off $xxxx0110$ MEASUREMENT METHOD $R_{In}E1$ $S_6-a$ , others-b/off $xxxx0110$ Measure the amplitude in the same $R_{In}S2$ $S_1-a$ , others-b/off $xxxx0010$ Way using pin 43. $R_{In}S2$ $S_2-a$ , others-b/off $xxxx0010$ Way using pin 43. $R_{In}E3$ $S_{22-a}$ , others-b/off $xxxx0100$ Way using pin 43. $R_{In}E4$ $S_{22-a}$ , others-b/off $xxxx0100$ Way using pin 43. $R_{In}E1$ $S_{23-a}$ , others-b/off $xxxx0100$ Way using pin 43. $R_{In}E1$ $S_{23-a}$ , others-b/off $xxxx0100$ Way using pin 43. $R_{In}E1$ $S_{23-a}$ , others-b/off $xxxx0100$ Way using pin 43. $R_{In}E1$ $S_{10-a}$ , others-b/off $xxxx0010$ Way using pin 33. $R_{In}S1$ $S_{10-a}$ , others-b/off $xxxx0010$ Way using pin 33. $R_{In}S2$ $S_{16-a}$ , others-b/off $xxxx0010$ Way using pin 33. $R_{In}S3$ $S_{22-a}$ , others-b/off $xxxxx0100$ Way using pin 33. $R_{In}S3$ $S_{22-a}$ , others-b/off $xxxxx0100$ Way using pin 33. $R_{In}S3$ $S_{22-a}$ , others-b/off $xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx$				MEASURING CONDITIONS (U	INLESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC} = 9V$ , Ta = 25 $\pm 3^{\circ}$ C)
Sw MODERinE1S3-aRinE1S6-aRinE1S6-aRinS1S10-aRinS2S16-aRinS3S22-aS16-aothers-b/offRinS3S22-aRinE3S49-aS16-aothers-b/offRinE3S22-aS16-aothers-b/offRinE3S22-aS22-aothers-b/offRinE4S52A-aS16-aothers-b/offRinE4S52A-aS10-aothers-b/offRin51S10-aS10-aothers-b/offRin53S22-aS10-aothers-b/offRin53S22-aS10-aothers-b/offRin53S22-aS10-aothers-b/offRin53S22-aS10-aothers-b/offRin53S22-aS10-aothers-b/offRin53S22-aS10-aothers-b/offRin53S22-aS10-aothers-b/offRin53S22-aS10-aothers-b/offRin54S52A-a, others-b/offRin54S52A-a, others-b/offRin55S49-aS10-aothers-b/offRin54S52A-a, others-b/offRin54S52A-a, others-b/offRin55S49-aS10-aothers-b/offRin54S52A-a, others-b/offRin55S10-aS10-aothers-b/offS10-aothers-b/offS10-aothers-b	NOTE			SW & VR MODE		
RinE1S6-aothers-b/offRinE1S6-aothers-b/offRinS1S10-aothers-b/offRinS2S16-aothers-b/offRinS3S22-aothers-b/offRinE3S49-aothers-b/offRinE3S49-aothers-b/offRinE3S49-aothers-b/offRinE3S49-aothers-b/offRinE3S52A-aothers-b/offRinE4S52A-aothers-b/offRin51S10-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S52A-aothers-b/offRin53S52A-aothers-b/offRin54S52A-aothers-b/offRin51S6-aothers-b/offRin51S6-aothers-b/offRin51S6-aothers-b/offRin51S6-aothers-b/offRin51S6-aothers-b/offRin51S6-aothers-b/offRin51S6-aothers-b/offRin51S6-aothers-b/offRin51S6-aothers-b/offRin51S6-aothers-b/offRin51 </td <td></td> <td></td> <td></td> <td>SW MODE</td> <td>DATA 2</td> <td>IMEASUKEIMEN I METHOD</td>				SW MODE	DATA 2	IMEASUKEIMEN I METHOD
RinE1S6-aothers-b/offRinS1S10-aothers-b/offRinS2S16-aothers-b/offRinS3S22-aothers-b/offRinE3S49-aothers-b/offRinE3S49-aothers-b/offRinE3S49-aothers-b/offRinE4S52A-aothers-b/offRinE1S6-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin54S52A-a, others-b/offRin64S52A-a, others-b/offRin65S22-a, others-b/offRin61S6-aRin64S52A-a, others-b/offRin65S22-a, others-b/offRin66S52A-a, others-b/offRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S6-aRin67S			R <sub>in</sub> E2	-	****0110	
Rin51S10-aothers-b/offRin52S16-aothers-b/offRin53S22-aothers-b/offRinE3S49-aothers-b/offRinE4S52A-a, others-b/offRinE1S6-aothers-b/offRin51S10-aothers-b/offRin53S52A-a, others-b/offRin51S6-aothers-b/offRin53S22-a, others-b/offRin53S22-a, others-b/offRin53S22-a, others-b/offRin53S22-a, others-b/offRin53S22-a, others-b/offRin53S22-a, others-b/offRin53S22-a, others-b/offRin53S22-a, others-b/offRin53S22-a, others-b/offRin53S22-a, others-b/offRin54S52A-a, others-b/offRin51S6-aRin53S22-a, others-b/offRin54S52A-a, others-b/off			RinE1	•	****0111	
Rin52S16-aothers-b/offRin53S22-aothers-b/offRinE3S49-aothers-b/offRinE4S52A-aothers-b/offAudio RRinE2S3-aothers-b/offRinE1S6-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin53S22-aothers-b/offRin64S52A-a, others-b/offRin65S52A-a, others-b/offRin61S6-aothers-b/off			R <sub>in</sub> S1		****0011	Measure the amplitude in the same
Rin53522-aothers-b/offRinE3549-aothers-b/offRinE4552A-aothers-b/offAudio RRinE253-aothers-b/offRinE156-aothers-b/off66-aDynamic RangeRin51510-aothers-b/offRin53522-aothers-b/off8Rin53522-aothers-b/off6Rin53522-aothers-b/off6Rin53522-aothers-b/off6Rin64552A-aothers-b/off6Rin6156-aothers-b/off6			R <sub>in</sub> s2	S <sub>16</sub> -a , others-b / off	****0010	way using pin 43.
RinE3S49-aothers-b/offRinE4S52A-a, others-b/offRinE2S3-aothers-b/offAudio RRinE1S6-aothers-b/offRin51S10-aothers-b/offRin52S16-aothers-b/offRin53S22-aothers-b/offRinE3S49-aothers-b/offRin53S22-aothers-b/offRinE4S52A-a, others-b/offRinE4S52A-a, others-b/offRinE1S6-aothers-b/off			R <sub>in</sub> S3	S22-a , others-b / off	****0001	(Data 1 D <sub>00</sub> =0 : mute off)
RinE4S52A-a, others-b/offAudio RRinE2S3-a, others-b/offAudio RRinE1S6-a, others-b/offDynamic RangeRinS1S10-a, others-b/offRinS2S16-a, others-b/offRinS3RinS3S22-a, others-b/offRinE3S49-a, others-b/offRinE4S52A-a, others-b/offRinE4S52A-a, others-b/offRinE1S6-a, others-b/off			R <sub>in</sub> E3	S49-a , others-b / off	****0101	
Audio RRinE2S3-aothers-b/offAudio RRinE1S6-aothers-b/offDynamic RangeRin51S10-aothers-b/offRin52S16-aothers-b/offRin53Rin53S22-aothers-b/offRinE3S49-aothers-b/offRinE4S52A-a, others-b/offRinE1S6-aothers-b/off			RinE4	S52A-a, others-b / off	****0100	
Audio RRinE2S3-aothers-b/offDynamic RangeRin5156-aothers-b/offDynamic RangeRin51510-aothers-b/offRin52516-aothers-b/offRin53Rin53522-aothers-b/offRin54RinE3549-aothers-b/offERinE4552A-a, others-b/offERinE156-aothers-b/offRinE156-aothers-b/off					DATA 3	
RinE1S6-aothers-b / offDynamic RangeRinS1510-aothers-b / offRinS2516-aothers-b / off8inS3RinE3S22-aothers-b / off8inE4RinE3S49-aothers-b / off1RinE4S52A-a, others-b / off1RinE1S6-aothers-b / off			R <sub>in</sub> E2		****0110	
Rin51 510-a , others-b / off Rin52 516-a , others-b / off Rin53 522-a , others-b / off RinE3 549-a , others-b / off RinE4 552A-a, others-b / off RinE1 56-a , others-b / off	19	-	R <sub>in</sub> E1	-	****0111	
S16-a , others-b / off S22-a , others-b / off S49-a , others-b / off S52A-a, others-b / off S6-a , others-b / off			R <sub>in</sub> S1		****0011	Measure the amplitude in the same
S22-a       , others-b / off       ****0001         S49-a       , others-b / off       ****0101         S52A-a, others-b / off       ****0100         S6-a       , others-b / off       ********			R <sub>in</sub> S2	-	****0010	way using pin 33.
S49-a       , others-b / off       ****0101         S52A-a, others-b / off       ****0100         DATA 2, 3       DATA 2, 3         S6-a       , others-b / off       ********			R <sub>in</sub> sa	•	****0001	(Data 1 D <sub>01</sub> =0 : mute off)
S52A-a, others-b / off         ****0100           DATA 2, 3         DATA 2, 3           S6-a         , others-b / off         ********			R <sub>in</sub> E3		****0101	
DATA 2, 3 56-a , others-b / off *******			RinE4	S52A-a, others-b / off	****0100	
S6-a , others-b / off *******					DATA 2, 3	
S6-a , others-b / off *******			i			Measure the amplitude in the same
(Data 1 D <sub>02</sub> = 0 : mute off)			Rin£1	S6-a , others-b / off	******	way using pin 39.
						(Data 1 $D_{02} = 0$ : mute off)

			MEAS	URING CONDITIONS (UN	NLESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, V <sub>CC</sub> = 9V, Ta = $25\pm3^{\circ}$ C)
NOTE	ITEM			SW & VR MODE		
				SW MODE	DATA 2	MEASUKEMEN / METHOD
		L <sub>in</sub> E2	S1-a	, others-b / off	****0110	
		LinE1	S4-a	, others-b / off	****0111	(1) V <sub>2</sub> 1kHz, 1V <sub>p-b</sub> input.
		L <sub>in</sub> S1	S8-a	, others-b / off	****0011	(2) For each, measure the output
		L <sub>in</sub> sz	514-a	, others-b / off	****0010	amplitude on pin 45 to find the
		L <sub>in</sub> S3	S20-a	, others-b / off	****0001	gain.
		L <sub>in</sub> E3	S51-a	S <sub>51</sub> -a , others-b / off	****0101	(Data 1 D <sub>00</sub> = 0 : mute off)
		LinE4	S54A-8	S54A-a, others-b / off	****0100	
					DATA 3	
		L <sub>in</sub> E2	S1-a	, others-b / off	****0110	
20	Audio L Gain	L <sub>in</sub> E1	S4-a	, others-b / off	****0111	
	-	L <sub>in</sub> S1	58-a	, others-b / off	****0011	Find the gain in the same way using
		L <sub>in</sub> sz	S14-a	, others-b / off	****0010	pin 35.
		L <sub>in</sub> S3	520-a	, others-b / off	****0001	(Data 1 $D_{01} = 0$ : mute off)
		L <sub>in</sub> E3	S51-a	, others-b / off	****0101	
		L <sub>in</sub> E4	554A-ê	S54A-a, others-b / off	****0100	
					DATA 2, 3	
						Find the gain in the same way using
		LinE1	S4-a	, others-b / off	*****	pin 41.
						(Data 1 $D_{02} = 0$ : mute off)

-			MEAS	URING CONDITIONS (UI	NLESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC} = 9V$ , Ta = 25 $\pm 3^{\circ}$ C)
NOTE	ITEM			SW & VR MODE		
				SW MODE	DATA 2	MEASUREMENT METHOD
		R <sub>in</sub> E2	S3-a	, others-b / off	****0110	
		RinE1	56-a	, others-b / off	****0111	
		R <sub>in</sub> S1	510-a	, others-b / off	****0011	Find the gain in the same way using
		RinS2	S16-a	, others-b / off	****0010	pin 43.
		R <sub>in</sub> S3	S22-a	S <sub>22</sub> -a , others-b / off	****0001	(Data 1 $D_{00} = 0$ : mute off)
		R <sub>in</sub> E3	549-a	549-a , others-b / off	****0101	
		R <sub>in</sub> E4	S52A- <sup>a</sup>	S52A-a, others-b / off	****0100	
					DATA 3	
		RinE2	S <sub>3</sub> -a	, others-b / off	****0110	
20	Audio R Gain	RinE1	S6-a	, others-b / off	****0111	
		RinS1	S10-a	, others-b / off	****0011	Find the gain in the same way using
		R <sub>in</sub> 52	516-a	, others-b / off	****0010	pin 33.
		R <sub>in</sub> S3	S22-a	, others-b / off	****0001	(Data 1 D <sub>01</sub> = 0 : mute off)
		R <sub>in</sub> E3	S49-a	549-a , others-b / off	****0101	
		RinE4	552A-a	S52A-a, others-b / off	****0100	
					DATA 2, 3	
						Find the gain in the same way using
		RinE1	S6-a	, others-b / off	****	pin 39.
						(Data 1 $D_{02} = 0$ : mute off)

			MEAS	URING CONDITIONS (UI	NLESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC} = 9V$ , Ta = 25 $\pm 3^{\circ}$ C)
NOTE	ITEM			SW & VR MODE		
				SW MODE	DATA 2	MEASUREMENT METHOD
		L <sub>in</sub> E2	S1-a	, others-b / off	****0110	
		L <sub>in</sub> E1	S₄-a	, others-b / off	****0111	(1) V <sub>2</sub> frequency-variable, 1V <sub>p-D</sub> input.
		L <sub>in</sub> S1	58-a	, others-b / off	****0011	(2) Measure the output amplitude on
		L <sub>in</sub> sz	S14-a	, others-b / off	****0010	pin 45 and find the frequency
		Lin53	520-a	S20-a , others-b / off	****0001	equivalent to
		L <sub>in</sub> E3	S51-a	551-a , others-b / off	****0101	(Data 1 $D_{00} = 0$ : mute off)
		LinE4	554A-ê	S54A-a, others-b / off	****0100	
					DATA 3	
	Audio   Fragmanov	LinE2	S1-a	, others-b / off	****0110	
21	Rechonse	ц <sub>in</sub> E1	S4-a	, others-b / off	****0111	
		L <sub>in</sub> S1	S8-a	, others-b / off	****0011	Measure the amplitude in the same
		LinS2	S14-a	, others-b / off	****0010	way using pin 35.
		L <sub>in</sub> sa	S20-a	, others-b / off	****0001	(Data 1 $D_{01} = 0$ : mute off)
		L <sub>in</sub> E3	S51-a	S <sub>51</sub> -a , others-b / off	****0101	
		LinE4	554A-a	S54A-a, others-b / off	****0100	
					DATA 2, 3	
_						Measure the amplitude in the same
		LinE1	54-a	S4-a , others-b / off	*****	******* way using pin 41.
						(Data 1 D <sub>02</sub> =0 : mute off)

2000-03-03 37/46

.,	

			MEAS	URING CONDITIONS (UI	NLESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC}$ = 9V, Ta = 25±3°C)
NOTE	ITEM			SW & VR MODE		
				SW MODE	DATA 2	
		R <sub>in</sub> E2	53-a	, others-b / off	****0110	
		RinE1	56-a	, others-b / off	****0111	
		RinS1	510-a	, others-b / off	****0011	Measure the amplitude in the same
		R <sub>in</sub> S2	S16-a	, others-b / off	****0010	****0010 way using pin 43.
		R <sub>in</sub> S3	S22-a	, others-b / off	****0001	****0001 (Data 1 D <sub>00</sub> = 0 : mute off)
		R <sub>in</sub> E3	S49-a	S49-a , others-b / off	****0101	
		RinE4	552A-ē	S52A-a, others-b / off	****0100	
					DATA 3	
	Andio R Fragmancy	R <sub>in</sub> E2	S3-a	, others-b / off	****0110	
21	Renored	R <sub>in</sub> E1	5 <sub>6</sub> -a	, others-b / off	****0111	
	Sciodest	R <sub>in</sub> S1	S10-a	, others-b / off	****0011	****0011 Measure the amplitude in the same
		R <sub>in</sub> S2	S16-a	, others-b / off	****0010	****0010 way using pin 33.
		R <sub>in</sub> S3	522-a	, others-b / off	****0001	****0001 (Data 1 D <sub>01</sub> =0 : mute off)
		R <sub>in</sub> E3	S49-a	549-a , others-b / off	****0101	
		RinE4	S52A-8	S52A-a, others-b / off	****0100	
					DATA 2, 3	
						Measure the amplitude in the same
		RinE1	S4-a	S4-a , others-b / off	*****	******* way using pin 39.
						(Data 1 D <sub>02</sub> =0 : mute off)

			MEASURING CONDITIONS (UN	VLESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC} = 9V$ , Ta = 25 $\pm 3^{\circ}$ C)
NOTE	ITEM		SW & VR MODE		
			SW MODE	DATA 2	
		LinE2	Ail-b/off except those specified on the left ****0110 (1) V2 1kHz, 1Vp-p input.	****0110	(1) V2 1kHz, 1V <sub>p-p</sub> input.
		LinE1	All-b / off except those specified on the left	****0111	All-b/off except those specified on the left ****0111 (2) While sequentially switching S1, S3,
		LinS1	All-b/off except those specified on the left ****0011	****0011	54, 56, 510, 514, 516, 520, 522, 549,
		L <sub>in</sub> s2	All-b / off except those specified on the left	****0010	551, 552A, and 554A to 'a', measure
		Lin53	All-b/off except those specified on the left	****0001	the maximum level of crosstalk to
		LinE3	All-b/off except those specified on the left	****0101	pin 45 and find its ratio to selected
		LinE4	All-b / off except those specified on the left ****0100	****0100	output.
22	Switch Crocetalk				(Data 1 $D_{00} = 0$ : mute off)
1				DATA 3	
		L <sub>in</sub> E2	All-b / off except those specified on the left ****0110	****0110	
		LinE1	All-b/off except those specified on the left ****0111	****0111	
		L <sub>in</sub> S1	All-b/off except those specified on the left	****0011	All-b/off except those specified on the left ****0011 Measure the maximum level of
		L <sub>in</sub> S2	All-b/off except those specified on the left	****0010	All-b/off except those specified on the left ****0010 crosstalk in the same way using pin 35.
		L <sub>in</sub> S3	All-b/off except those specified on the left	****0001	****0001 (Data 1 D <sub>01</sub> =0 : mute off)
		L <sub>in</sub> E3	All-b/off except those specified on the left ****0101	****0101	
		L <sub>in</sub> E4	All-b / off except those specified on the left ****0100	****0100	

			MEASURING CONDITIONS (UN	<b>VLESS OTHE</b>	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC} = 9V$ , Ta = 25 $\pm 3^{\circ}$ C)
NOTE	ITEM		SW & VR MODE		
			SW MODE	DATA 2	
	-	R <sub>in</sub> E2	All-b / off except those specified on the left	****0110	
		RinE1	All-b / off except those specified on the left	****0111	
		R <sub>in</sub> s1	All-b/off except those specified on the left	****0011	Measure the maximum level of
		R <sub>in</sub> s2	All-b/off except those specified on the left	****0010	crosstalk in the same way using pin 43.
		R <sub>in</sub> sa	All-b / off except those specified on the left	****0001	(Data 1 D <sub>00</sub> = 0 : mute off)
		RinE3	All-b/off except those specified on the left	****0101	
		RinE4	All-b/off except those specified on the left	****0100	
	R Switch Crosstalk			DATA 3	
		R <sub>in</sub> E2	All-b/off except those specified on the left	****0110	
		RinE1	All-b/off except those specified on the left ****0111	****0111	
"		RinS1	All-b / off except those specified on the left	****0011	Measure the maximum level of
1		Rin52	All-b/off except those specified on the left ****0010	****0010	crosstalk in the same way using pin 33.
		Rin53	All-b/off except those specified on the left ****0001	****0001	(Data 1 $D_{01} = 0$ : mute off)
		R <sub>in</sub> E3	All-b/off except those specified on the left	****0101	
		RinE4	All-b/off except those specified on the left	****0100	
				DATA 2, 3	
	:				Measure the maximum level of
	TV-L Crosstalk		All-b/off except those specified on the left	*****	crosstalk in the same way using pin 41.
					(Data 1 $D_{02} = 0$ : mute off)
	:				Measure the maximum level of
	IV-R Crosstalk		All-b/off except those specified on the left	*******	All-b/off except those specified on the left ******** Crosstalk in the same way using pin 39.
					(Data 1 $D_{02} = 0$ : mute off)

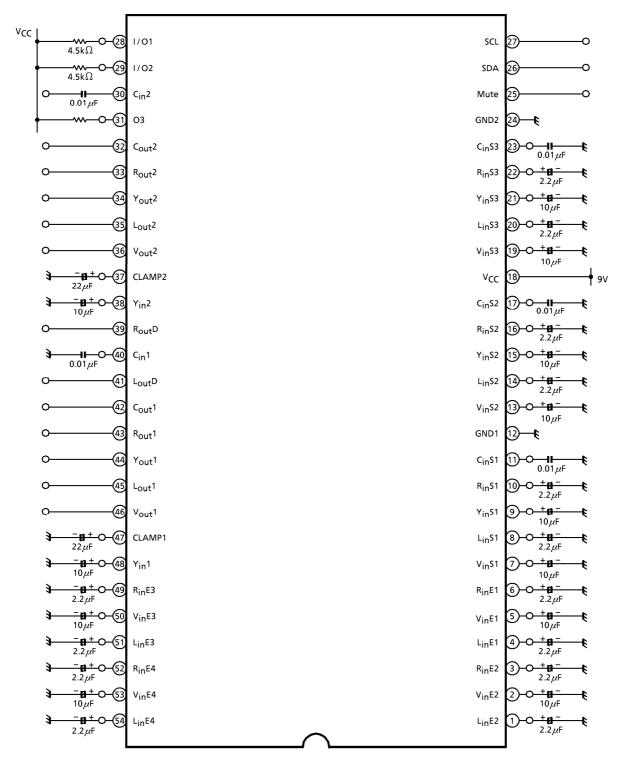
TA8851BN/CN

		MEASURING CONDITIONS (UNLI	ESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC} = 9V$ , Ta = 25±3°C)
NOTE	ITEM	SW & VR MODE		
		SW MODE	DATA 2, 3	MEASUKEMENT METHOD
	L Switch Mute Attenuation	All-b/off except those specified on the left *	* * * *	<ul> <li>(1) V<sub>2</sub> 1kHz, 1V<sub>P-P</sub> input.</li> <li>(2) Mute on (data 1 D00 = 1) and while sequentially switching 51, 53, 54, 56, 58, 510, 514, 516, 520, 522, 549, 551, 552A, and 554A to 'a', measure the maximum level of crosstalk to pin 45 and find its ratio to selected output.</li> </ul>
23		All-b/off except those specified on the left *	****	All-b/off except those specified on the left ******* crosstalk in the same way using pin 35. (Data 1 D01=1 : mute on)
	R Switch Mute Attenuation	All-b/off except those specified on the left *	* * * * * * *	Measure the maximum level of crosstalk in the same way using pin 43. (Data 1 D <sub>00</sub> =1 : mute on)
		All-b/off except those specified on the left *	****	All-b/off except those specified on the left ******* crosstalk in the same way using pin 33. (Data 1 D01 = 1 : mute on)

			MEASURING CONDITIONS (UN	<b>NLESS OTHE</b>	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC}$ = 9V, Ta = 25 $\pm$ 3°C)
NOTE	ITEM		SW & VR MODE		
			SW MODE	DATA 2, 3	IMEASUREMENT METHOD
		LinE2	All-b / off	****0110	
		LinE1	All-b / off	****0111	(i) No-signal input.
-		LinS1	All-b / off	****0011	(2) Measure voltage fluctuations to
		L <sub>in</sub> sz	All-b / off	****0010	Tind the maximum value in all
		L <sub>in</sub> S3	All-b / off	****0001	Input modes of data 2 for pin 45,
		LinE3	All-b / off	****0101	and in all input modes of data 3
		LinE4	All-b / off	****0100	.ct nid 101
		RinE2	All-b / off	****0110	
2	Mode Switching	R <sub>in</sub> E1	All-b / off	****0111	
t V	Offset	R <sub>in</sub> S1	All-b / off	****0011	Find the maximum value in the same
~		R <sub>in</sub> s2	All-b / off	****0010	****0010 way using pin 43 (data 2) and pin 33
		R <sub>in</sub> sa	All-b / off	****0001	(data 3).
		R <sub>in</sub> E3	All-b / off	****0101	
		RinE4	All-b / off	****0100	
		LinE1	All-b / off	*****	Find the maximum value in the same way using pin 41.
		RinE1	All-b / off	******	Find the maximum value in the same way using pin 39.

			MEASURING CONDITIONS (UN	VLESS OTHE	MEASURING CONDITIONS (UNLESS OTHERWISE SPECIFIED, $V_{CC} = 9V$ , $T_a = 25 \pm 3^{\circ}C$ )
NOIE	ITEM		SW & VR MODE		
			SW MODE	DATA 2, 3	MEASUREMENT METHOD
		V <sub>in</sub> S1	Sg-a, S7B-on, others-b / off	****0011	<ul> <li>****0011 (1) V1 1kHz, 1V<sub>p-p</sub> input.</li> <li>****0011 (2) While gradually lowering the V3 voltage find the voltage where the</li> </ul>
25 25	S Input Discriminating Voltage	V <sub>in</sub> S2	S15-a, S13B-on, others-b / off	****0010	output mode changes to the S mode (i.e., the voltage at which a
		V <sub>in</sub> S3	S21-a, S19B-on, others-b / off	****0001	waveform appears on pin 46). (Data 1 D00, D01, D02=0 : mute off)
		1/01	528-a , others-b / off	*****	******* While gradually lowering the V3
76 7	l Input Discriminating	1/02	S29-a , others-b / off	****	voltage, find the voltage at which the
	Voltage	RinE4	S52B-on , others-b / off	*****	data 01 B34, B35, B30, and B3/ changes from 0 to 1 respectively
	1	LinE4	S54B-on , others-b / off	*******	******* (Data 1 D03, D04 = 1 :   MODE)
27 E V	External Mute-ON Voltage	Mute	S4, S25-a, others-b/off	****	While gradually raising the V3 voltage, ******* find the voltage at which mute is turned on
		1/01	All-b / off	******	Find the voltage on pins 28. 29, and 31
58 28	U UULPUL LOW	1/02	All-b / off	******	******* when the data D <sub>03</sub> , D04, and D <sub>05</sub> are
, ,		03	All-b / off	*******	******* 0, respectively.

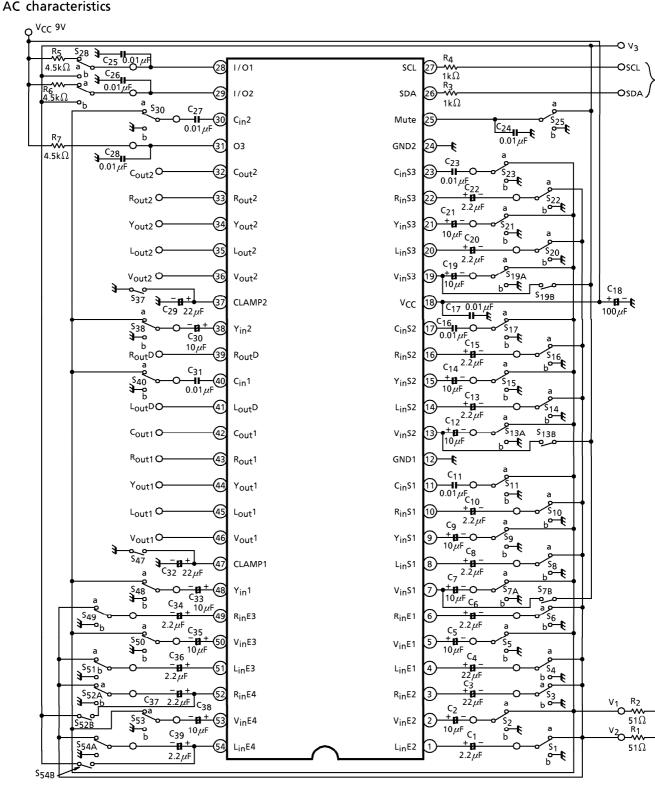
**TEST CIRCUIT 1** DC characteristics



Line

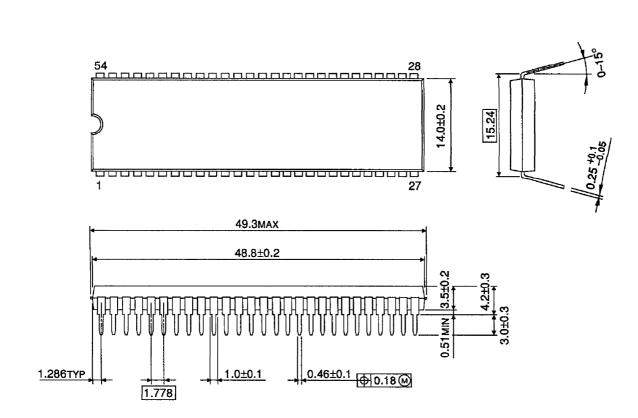
Bus

### TEST CIRCUIT 2



PACKAGE DIMENSIONS SDIP54-P-600-1.78

Unit : mm



Weight : 1.0g (Typ.)