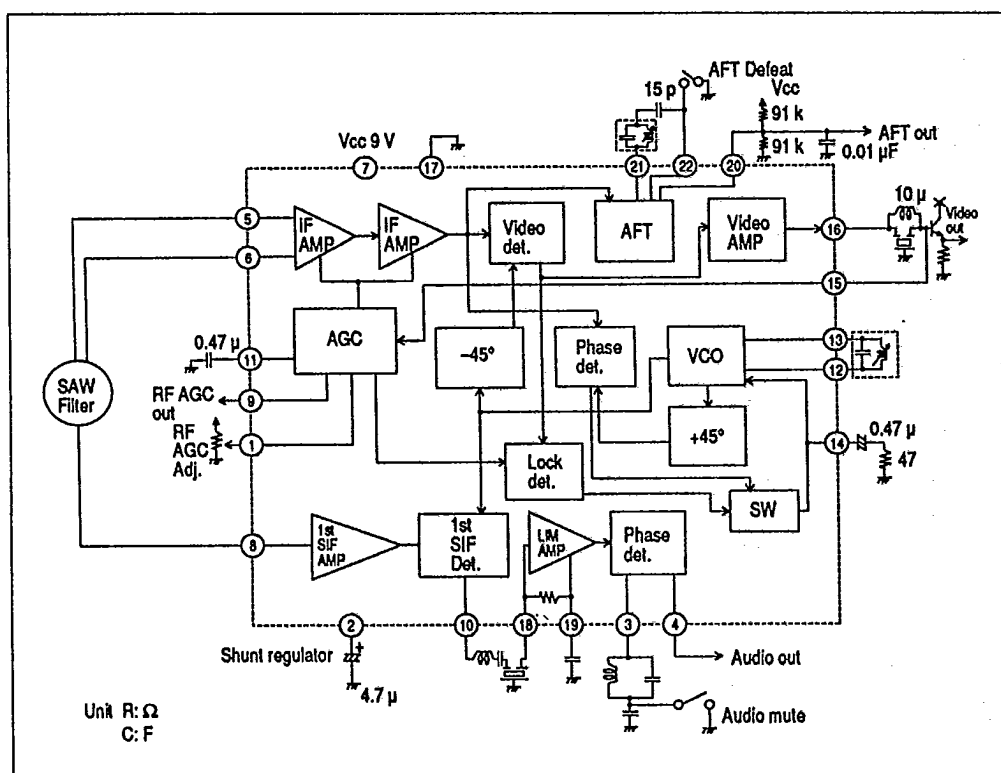


HA11556NT

T-77-07-13

Color TV and VCR Picture IF and Sound IF System**Features**

- Improved video output S/N
- Improved video output linearity
- Improved sound S/N and output buzz sound
- Designed for saw split system

Block Diagram**Ordering Information**

Type No.	Package
HA11556NT	DP-22S



Hitachi America, Ltd. • Hitachi Plaza • 2000 Sierra Point Pkwy. • Brisbane, CA 94005-1819 • (415) 589-8300

HA11556NT

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Table 1 Absolute Maximum Ratings (Ta = 25 °C)

Item	Symbol	Rating	Unit
Supply voltage	Vcc	10	V
Power dissipation	Pr	900	mW
Operating temperature	Topr	-15 to +65	°C
Storage temperature	Tstg	-55 to +125	°C

Table 2 Electrical Characteristics (Vcc = 9 V, Ta = 25 °C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Video	Input sensitivity	V _{IN}	—	45	50	dBμ at 1 dB down video output
	Maximum input signal level	V _{INMAX}	100	105	—	dBμ at 1 dB up video output
	Video bandwidth	Fc	6.0	8.0	—	MHz at 3 dB down video output
	Video output amplitude	V _{OUT}	1.7	2.0	2.3	V _{p-p} mod = 87.5 %
	Differential gain	DG	—	2	—	% IF input level = 80 dBμ mod = 87.5 %
	Differential phase	DP	—	1	—	deg IF input level = 80 dBμ mod = 87.5 %
	RF AGC max voltage	V _{TR(MAX)}	8.0	8.7	—	V
	RF AGC min voltage	V _{TR(MIN)}	—	0	1.0	V
	AFT DET sensitivity	μ	20	47	—	mV/kHz
	AFT max voltage	V _{AMAX}	7.7	8.3	—	V
	AFT min voltage	V _{AMIN}	—	0.5	1.0	V
	AFT defeat cent voltage	V _{ADEF}	4.0	4.5	5.0	V
	VCO pull in range(Hi)	F _{PIH(HI)}	—	2.5	—	MHz
	VCO pull in range(Lo)	F _{PIH(LO)}	—	-1.5	—	MHz



Electrical Characteristics ($V_{CC} = 9\text{ V}$, $T_a = 25\text{ }^{\circ}\text{C}$) (cont)

T-77-07-13

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Audio	Input sensitivity	V_{LIM}	—	30	46	$\text{dB}\mu$ at 3 dB down audio output
	Audio output	V_{SOUT}	0.4	0.5	0.6	V_{rms} $f_c = 4.5\text{ MHz}$, $f_m = 1\text{ kHz}$, $f_d = \pm 25\text{ kHz}$, input level = $80\text{ dB}\mu$
	AM rejection ratio	AMR	40	60	—	dB $f_c = 4.5\text{ MHz}$, $f_m = 400\text{ Hz}$, $f_d = \pm 25\text{ kHz}$, $m = 30\%$, input level = $80\text{ dB}\mu$
	THD	THD	—	0.3	1.0	$\%$ $f_c = 4.5\text{ MHz}$, $f_m = 1\text{ kHz}$, $f_d = \pm 25\text{ kHz}$, input level = $80\text{ dB}\mu$
	Audio bandwidth	F_c	70	100	—	kHz at 3 dB down audio output
	Audio S/N	S/N	50	68	—	dB $f_c = 4.5\text{ MHz}$, $f_m = 1\text{ kHz}$, $f_d = \pm 25\text{ kHz}$, input level = $80\text{ dB}\mu$
	Differential bandwidth	BW	60	150	—	kHz at 3 % THD level



HA11556NT

T-77-07-13

External Circuit Saw Split Type

