

AN3383K

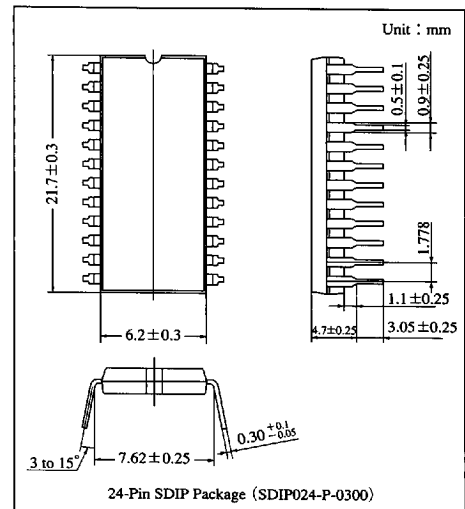
4-Head VCR Recording/Playback Amplifier IC

Overview

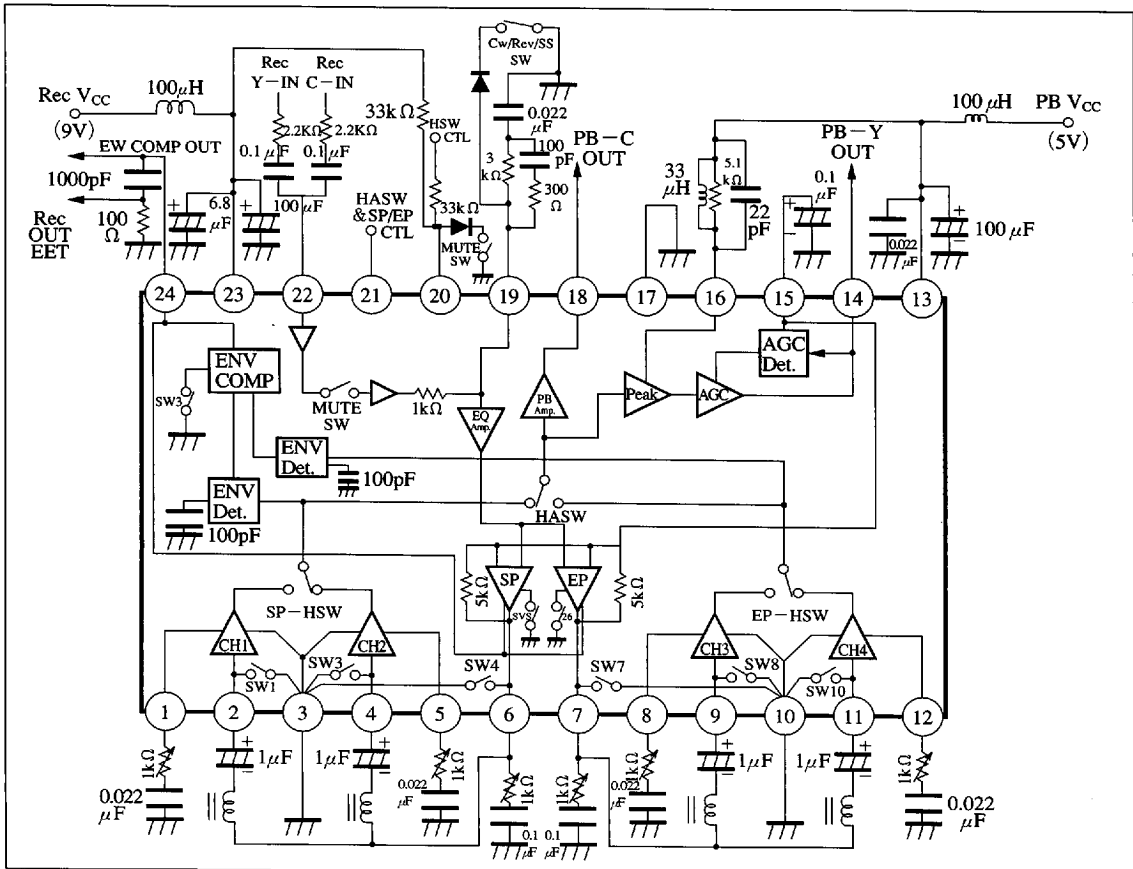
The AN3383K is a recording and playback amplifier IC for 4-head VCR. It is 24-pin SDIP-package IC and incorporates all recording and playback functions. Some required external components are commonly used for both recording and playback, resulting in fewer external components, lower cost, and smaller VCR.

Features

- Operating supply voltages : 9V typ. for recording, and 5V typ. for playing
- Low playback noise : 1 μ V r.m.s. max. equivalent input noise voltage
- Constant-current output recording amplifier
- Recording output monitor pins for easier recording level adjustment



Block Diagram



ICs for
VCR

Pin Descriptions

Pin No.	Pin name	Pin No.	Pin name
1	Ch1 damping adjustment	13	Playback V _{CC}
2	Ch1 input for playback, and grounded for recording	14	AGC output
3	SP ground	15	AGC detection and Rec. feedback
4	Ch2 input for playback, and grounded for recording	16	Peaking
5	Ch2 damping adjustment	17	GND
6	SP rec. output for recording, and grounded for playback	18	Playback amp. output
7	EP rec. output for recording, and grounded for playback	19	Rec. equalization and play mode setting
8	Ch3 damping adjustment	20	Head switch control and rec. muting
9	Ch3 input for playback, and grounded for recording	21	HASW control and Rec. SP/EP switching
10	EP ground	22	Rec. signal input
11	Ch4 input for playback, and grounded for recording	23	Rec. V _{CC}
12	Ch4 damping adjustment	24	Envelope comparator output and rec. output level detection

Absolute Maximum Ratings (Ta = 25 °C)

Parameter	Symbol	Rating	Unit
Supply voltage (1)	Rec V _{CC}	10	V
Supply voltage (2)	PB V _{CC}	6.0	V
Power dissipation ^{Note 2)}	P _D	784	mW
Operating ambient temperature ^{Note 1)}	T _{opr}	-20 to +70	°C
Storage temperature ^{Note 1)}	T _{stg}	-55 to +150	°C

Note 1) Ta = 25°C except operating ambient temperature and storage temperature.

Note 2) Allowable power dissipation of the package at Ta = 70°C.

Recommended Operating Range (Ta = 25°C)

Parameter	Symbol	Range
Operating supply voltage range (1)	PB V _{CC}	4.5V to 5.5V
Operating supply current range (2)	Rec V _{CC}	8.0V to 9.5V

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