

Dimensions (mm)

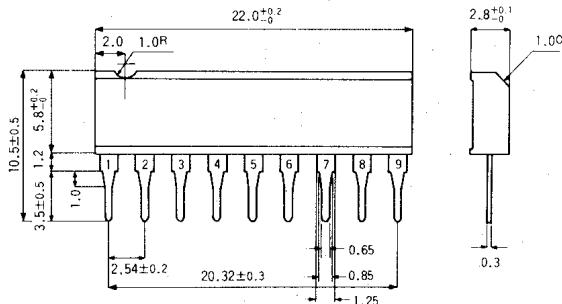
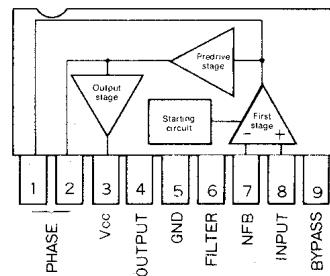


Fig. 1

## Block Diagram



## Circuit Diagram

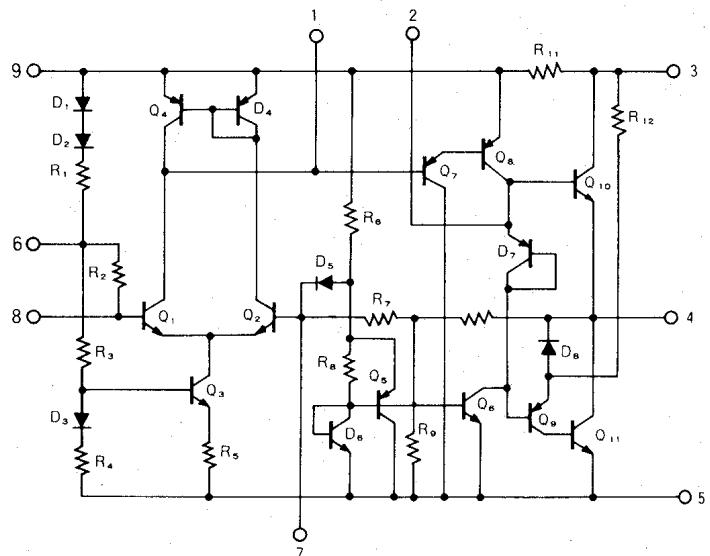


Fig. 3

## Applications

1. Compact radio cassette recorders
2. Portable cassette recorders

Absolute Maximum Ratings ( $T_a = 25^\circ C$ )

Parameter	Symbol	Limits	Unit
Supply voltage	V <sub>CC</sub>	9	V
Power dissipation	P <sub>d</sub>	800	mW
Operating temperature	T <sub>opr</sub>	-25~+16	°C
Storage temperature	T <sub>stg</sub>	-55~+125	°C

## Electrical Characteristics ( $T_a = 25^\circ\text{C}$ , $V_{CC} = 6\text{V}$ , $R_L = 4\Omega$ , $f = 1\text{kHz}$ , $R_{NF} = 220\Omega$ )

Parameter	Symbol	Min	Typ	Max	Unit	Conditions	Test circuit
Quiescent current	$I_Q$	—	16	25	mA	$V_{IN} = 0\text{V}$	Fig. 16
Closed-loop voltage gain	$G_{VC}$	43	46	49	dB	$R_{NF} = 220\Omega$ , $V_O = 0.45\text{V}$	Fig. 16
Maximum output power	$P_{OM}$	900	1300	—	mW	—	Fig. 16
Rated output power	$P_{OUT}$	700	800	—	mW	THD = 10%, 1kHz	Fig. 16
Output noise voltage	$V_{NO}$	—	0.2	0.7	mVrms	$R_g = 0\Omega$	Fig. 16
Total harmonic distortion	THD	—	0.45	1.8	%	$P_O = 50\text{mW}$ , 1kHz	Fig. 16
Input resistance	$R_{IN}$	—	47	—	kΩ	1kHz, $P_O = 50\text{mW}$	Fig. 16
Ripple rejection ratio	RR	45	55	—	dB	$R_g = 0\Omega$ , $f = 100\text{Hz}$	Fig. 16

## Electrical Characteristic Curves

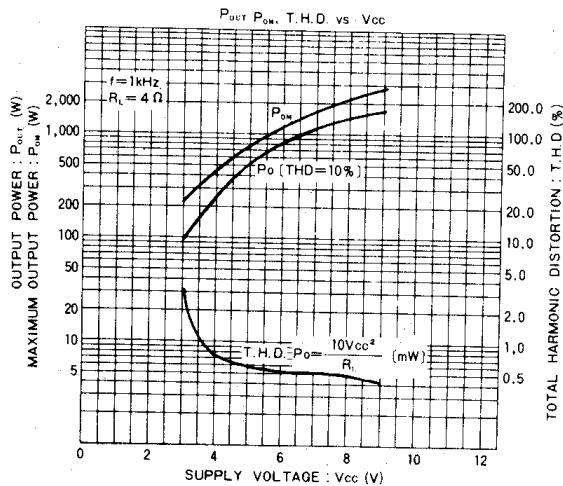


Fig. 4 Output power and total harmonic distortion vs. supply voltage

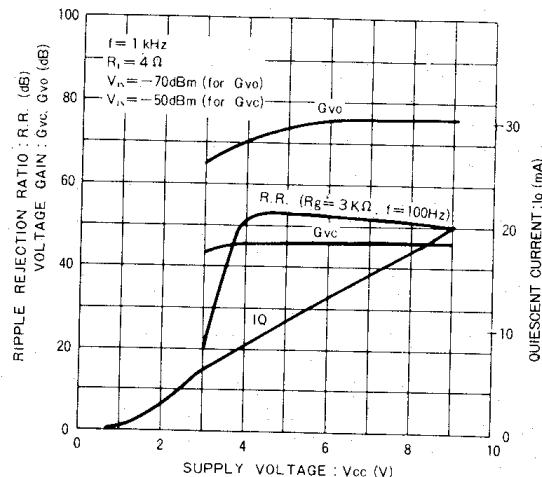


Fig. 5 Quiescent current, voltage gain, and ripple rejection ratio vs. supply voltage

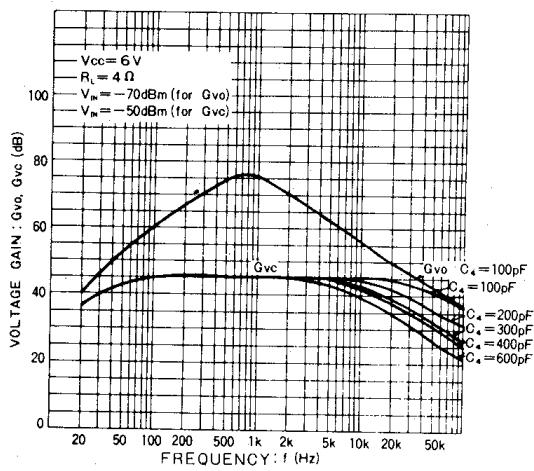


Fig. 6 Voltage gain vs. frequency

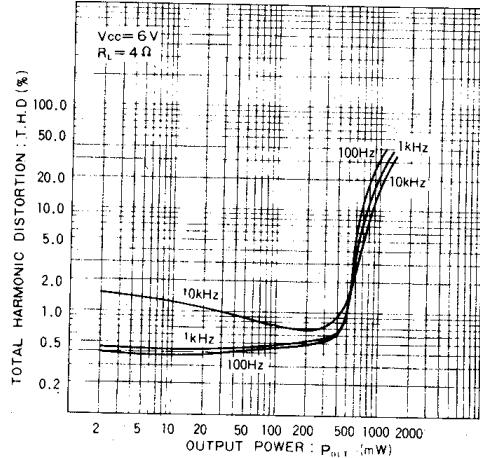


Fig. 7 Total harmonic distortion vs. output power ( $4\Omega$  load)