



### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Limits	Unit
Supply voltage	$V_{CC}$	14	V
Power dissipation	$P_d$	4.0	W
Operating temperature	$T_{opr}$	$-20 \sim +75$	$^\circ\text{C}$
Storage temperature	$T_{stg}$	$-55 \sim +125$	$^\circ\text{C}$

### Electrical Characteristics ( $T_a = 25^\circ\text{C}$ , $V_{CC} = 9\text{V}$ , $R_L = 4\Omega$ , $R_{NF} = 100\Omega$ )

Parameter	Symbol	Min	Typ	Max	Unit	Conditions	Test circuit
Quiescent current	$I_Q$	—	20	50	mA		Fig. 14
Close-loop voltage gain	$G_{VC}$	47	50	53	dB	$f = 1\text{kHz}$	Fig. 14
Rated power output	$P_{OUT}$	1.7	2.3	—	W	THD = 10%	Fig. 14
Output noise voltage	$V_{NO}$	—	0.7	3.0	mVrms	$R_g = 10\text{k}\Omega$	Fig. 14
Input resistance	$R_{IN}$	—	200	—	$\text{k}\Omega$		Fig. 14
Total harmonic distortion	THD	—	0.3	2	%	$P_{OUT} = 0.5\text{W}$	Fig. 14

### Electrical Characteristic Curves

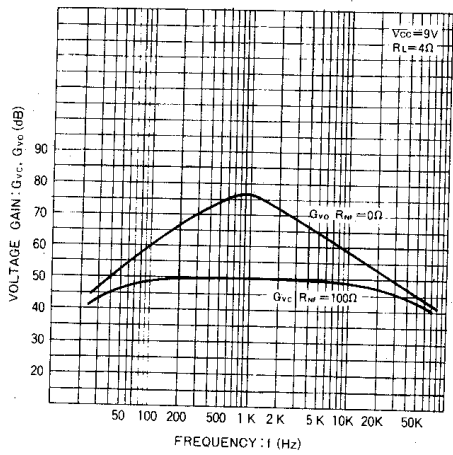


Fig. 4 Voltage gain vs. frequency

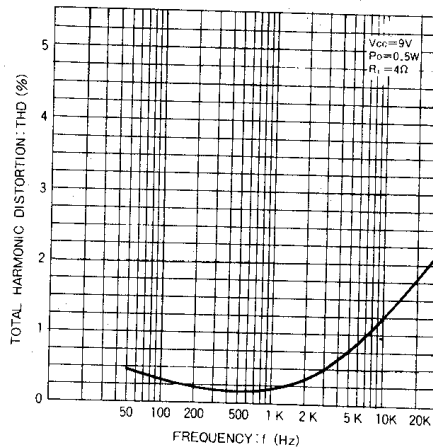


Fig. 5 Total harmonic distortion vs. frequency

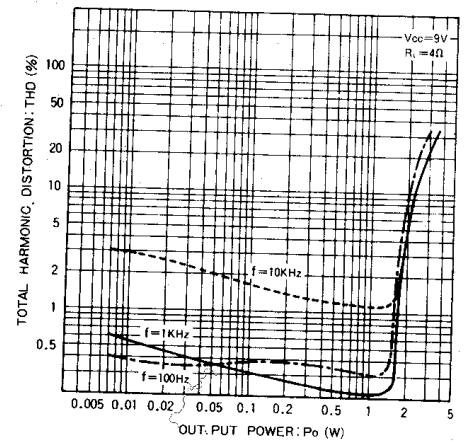


Fig. 6 Total harmonic distortion vs. output power

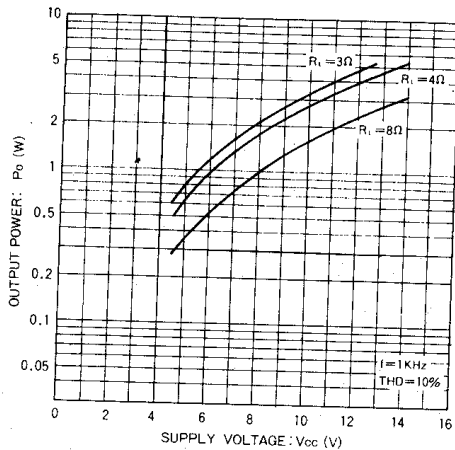


Fig. 7 Output power vs. supply voltage

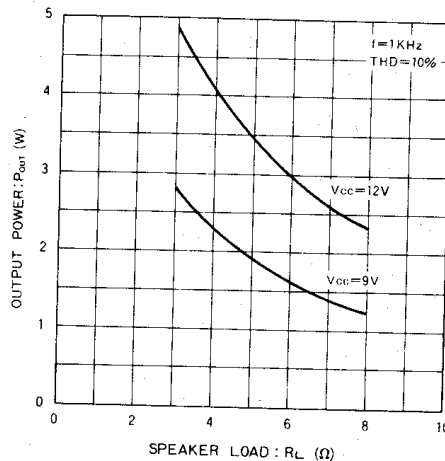


Fig. 8 Output power vs. load resistance

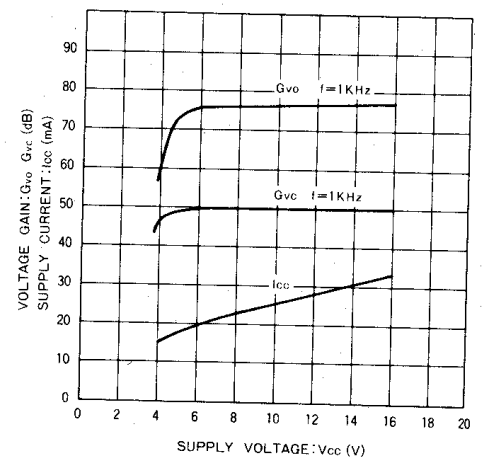


Fig. 9 Voltage gain and supply current vs. supply voltage