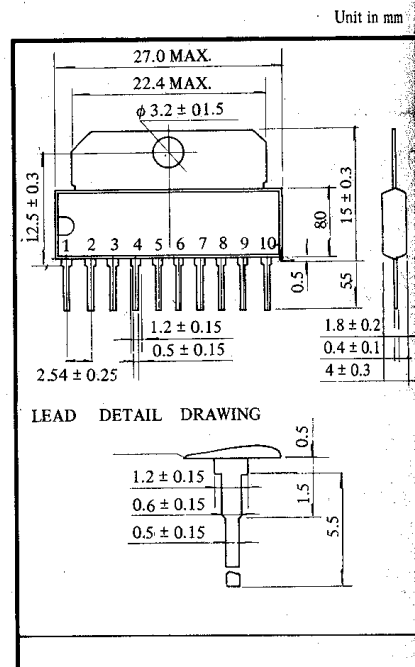


APPLICATIONS

- 5.8W Audio Power Amplifier.
- For Car-Stereo, Car-Radio Output.

FEATURES

- Output Power:
 $P_{OUT}=5.8W$ (Typ.) at $V_{CC}=13.2V$, $R_L=4\Omega$, THD=10%
- Maximum Output Power:
 $P_{OM}=9.5W$ (Typ.) at $V_{CC}=13.2V$, $R_L=4\Omega$
- Low Distortion:
THD=0.2% at $P_{OUT}=1W$, $G_V=55dB$
THD=0.08% at $P_{OUT}=1W$, $G_V=44dB$
- Wide Operating Supply Voltage Range : $V_{CC}=10.5\sim 18V$
- Low Noise.
- Current Limiting for Short-Circuit Protection.



■ MAXIMUM RATINGS ($T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	V_{CC}	18	V
Output Peak Current	$I_o(\text{peak})$	2	A
Power Dissipation	P_D	6	W

CHARACTERISTIC	SYMBOL	RATING	UNIT
Operating Temperature	T_{opr}	-20~75	$^\circ C$
Storage Temperature	T_{stg}	-55~150	$^\circ C$

■ ELECTRICAL CHARACTERISTICS

($V_{CC}=12.5V$, $R_L=4\Omega$, $R_g=600\Omega$, $R_t=82\Omega$, $f=1\text{ KHz}$, $T_a=25^\circ C$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Quiescent Current	I_{CCQ}	—	—	—	80	mA
		$V_{CC}=18V$	—	—	100	
Output Power	P_{OUT}	THD=10%	4.5	5	—	W
		$V_{CC}=13.2V$, THD=10%	—	5.8	—	
Maximum Output Power	P_{OM}	$V_{CC}=13.2V$	—	9.5	—	W
Total Harmonic Distortion	THD	$P_{OUT}=1W$	—	0.2	1.0	%
		$P_{OUT}=100mW$	—	0.3	1.0	
Voltage Gain	G_V	$V_{IN}=2.45mV_{rms}$	52	—	58	dB
Input Resistance	R_{IN}	$V_{OUT}=2V_{rms}$	30	40	—	$K\Omega$
Output Noise Voltage	V_{NO}	$R_g=10\text{ K}\Omega$ $BW=50\sim 20KHz$	—	—	4.5	mV