



ECG1036

0.7W AUDIO POWER AMPLIFIER

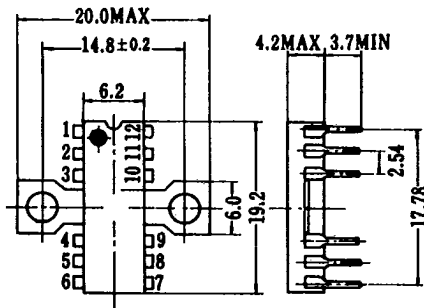
ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

V _{CC}	10 V
I _O	0.65 A
P _f *	0.65 W
T _{opr} **	-30 ~ +70°C
T _{stg}	-55 ~ +125°C

* Value when attach on the heat sink plate ($\theta_f = 84^\circ\text{C/W}$)

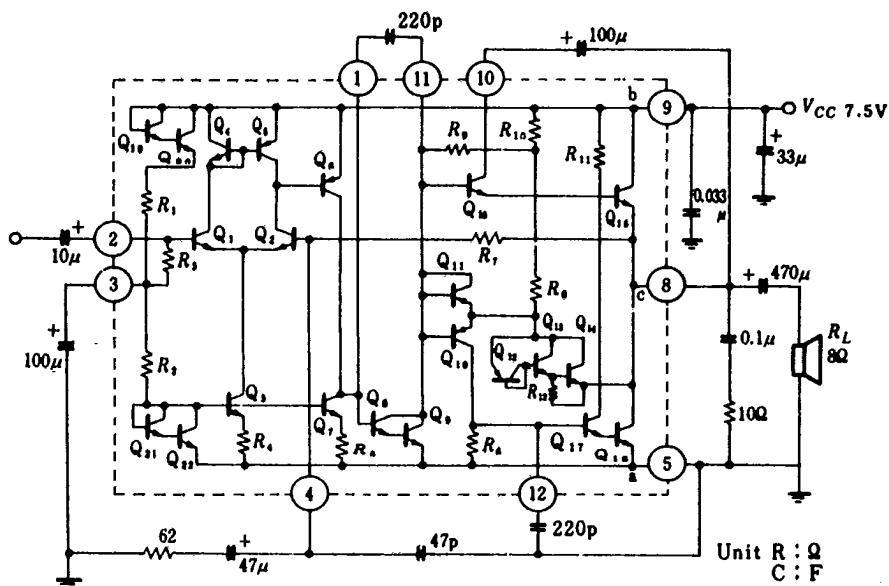
** Value when attach on the heat sink plate ($\theta_f = 84^\circ\text{C/W}$) at P_f = 0.55 W

PACKAGE



Dimensions in mm

CIRCUIT SCHEMATIC & TYPICAL EXTERNAL PARTS



Unit R : Ω
C : F

591

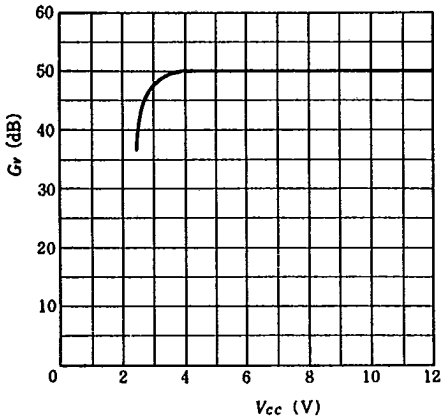
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ELECTRICAL CHARACTERISTICS ($V_{CC} = 7.5 \text{ V}$, $f = 1 \text{ kHz}$,
 $R_L = 8 \text{ Ohms}$, $T_a = 25^\circ\text{C}$)

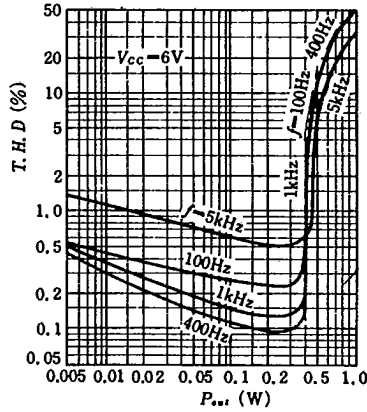
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Symbol	Test Conditions	Min.	Typ.	Max.	Unit
$G_V(\text{OL})$		--	90	--	dB
G_V		--	50	--	dB
T.H.D	$P_{\text{out}} = 50 \text{ mW}$	--	0.2	0.6	%
P_{out}	T.H.D = 10%	0.5	0.7	--	W
S/N	$R_g = 0$, $P_{\text{out}} = 50 \text{ mW}$, with $f = 20 \text{ kHz}$ L.P.F	--	66	--	dB
R_{in}		13	20	--	k Ohm

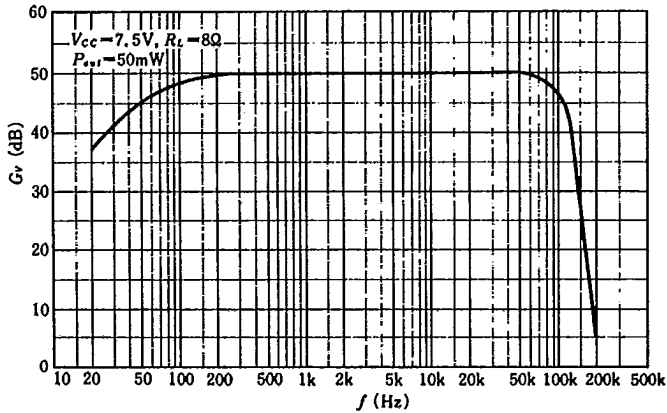
VOLTAGE GAIN VS. SUPPLY VOLTAGE



TOTAL HARMONIC DISTORTION VS. OUTPUT POWER

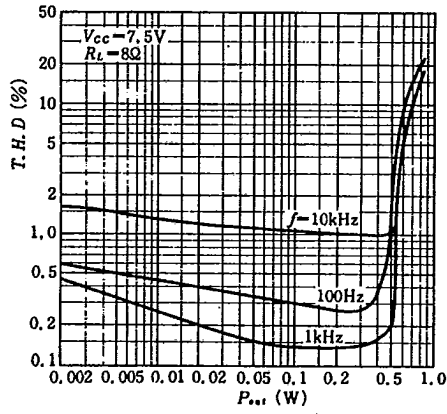


VOLTAGE GAIN VS. FREQUENCY



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TOTAL HARMONIC DISTORTION VS. OUTPUT POWER



POWER DISSIPATION VS. OUTPUT POWER

