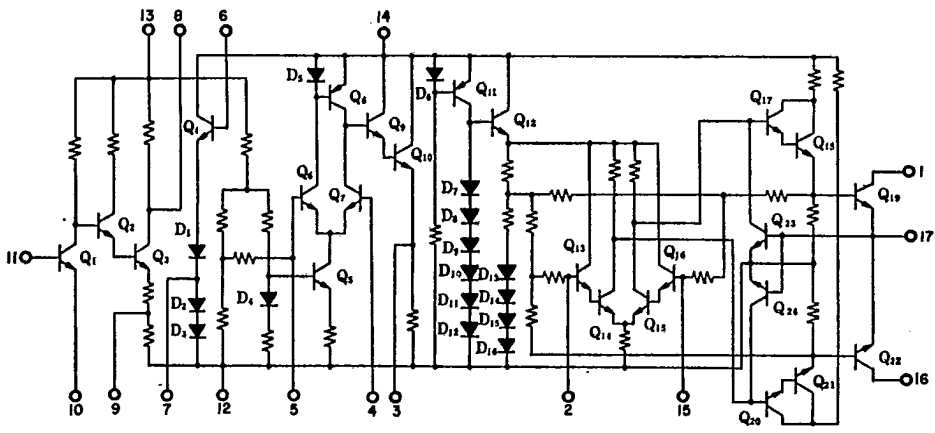
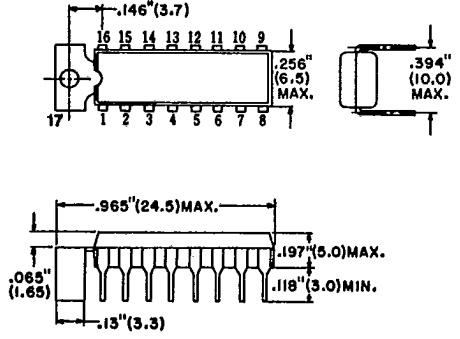
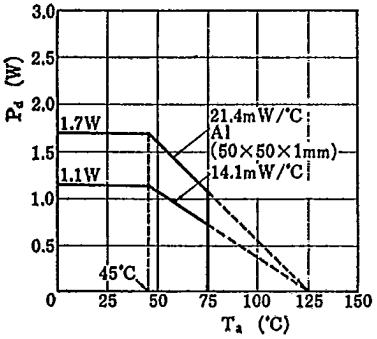


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ECG1156

2 Watt Audio Amplifier



971

ECG1156

Absolute Max. Ratings ($T_a = 25^\circ\text{C}$)

Symbol	Rating	Unit
V_{CO}	12	V
I_{CO}	1.5	A
P_d	1.1	W
P_{dF}	1.7	W
K_θ	14.1	mW/°C
$K_{\theta F}$	21.4	mW/°C
T_{opg}	-10~75	°C
T_{stg}	-20~125	°C

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Electrical Characteristics ($T_a = 25^\circ\text{C}$)

Symbol	V_{CC} (V)	f (Hz)	Value			Unit
			Min.	Typ.	Max.	
I_{CO}	9	—	20	30	60	mA
G_{VC1}	9	1k	—	35	—	dB
			—	20	—	
G_{VO1}	9	1k	55	60	—	dB
	4		42	50	—	
R_{I1}	9	1k	—	60	—	k Ω
V_{o1}	9	1k	0.3	0.5	—	V_{rms}
	4		0.3	—	—	V_{p-p}
N_{I1}	9	—	—	0.8	2.0	μV
AGC	9	1k	—	40	—	dB
G_{VC2}	9	1k	—	40	—	dB
			—	20	—	
G_{VO2}	9	1k	50	60	—	dB
	4		45	55	—	
R_{I2}	9	1k	—	80	—	k Ω
V_{o2}	9	1k	0.3	0.5	—	V_{rms}
	4		0.3	—	—	V_{p-p}
N_{I2}	9	—	—	—	3.16	μV
G_{VC3}	9	1k	—	25	—	dB
G_{VO3}	9	1k	34	40	—	dB
	4		30	33	—	
P_o	9	1k	1.5	2.0	—	W

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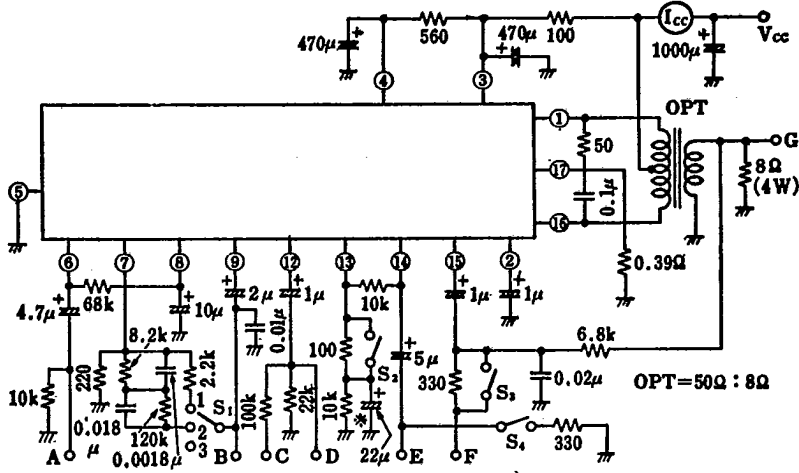


Figure 1

	A	B	C	D	E	F	G	S ₁	S ₂	S ₃	S ₄	V _{CC} (V)	
G _{VC1}	V _I	M		GND		GND		1, 2				9	
G _{VO1}	V _I	M		GND		GND		3				9, 4	
V _{o1}	V _I	M		GND		GND		1				9, 4	
N _{I1}	—	—	—	—	—	—	M	2	OFF	OFF	OFF	9	R _g =1kΩ
G _{VC2}	GND			V _I	M	GND			OFF	OFF	OFF	9	
G _{VO2}	GND			V _I	M	GND			ON	OFF	OFF	9, 4	
V _{o2}	GND			V _I	M	GND			OFF	ON	ON	9, 4	
N _{I2}	GND			—	—	—	M		OFF	OFF	OFF	9	R _g =0Ω
G _{VC3}	GND			GND		V _I	M			OFF		9	R _g =75Ω
G _{VO3}	GND			GND		V _I	M			ON		9, 4	R _g =75Ω
P _o	GND			GND		V _I	M			OFF		9	R _g =75Ω
I _{CC}	GND			GND		GND		1, 2	OFF	OFF	OFF	9	

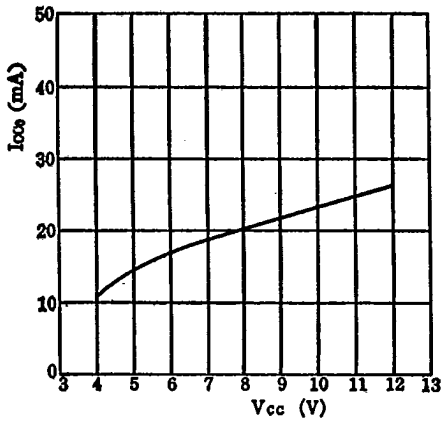


Figure 2

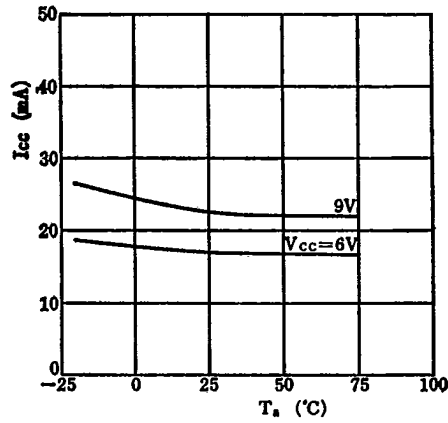


Figure 3

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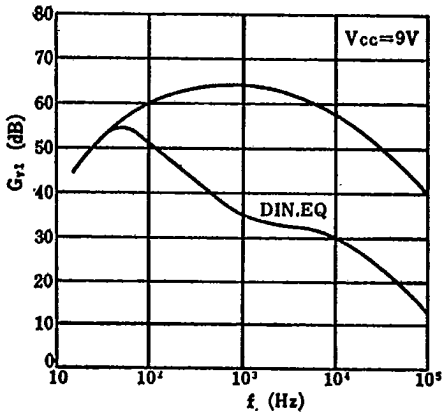


Figure 4

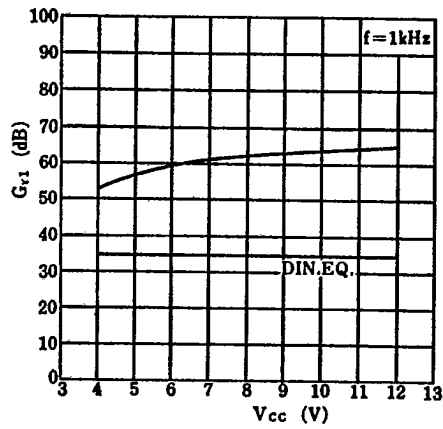


Figure 5

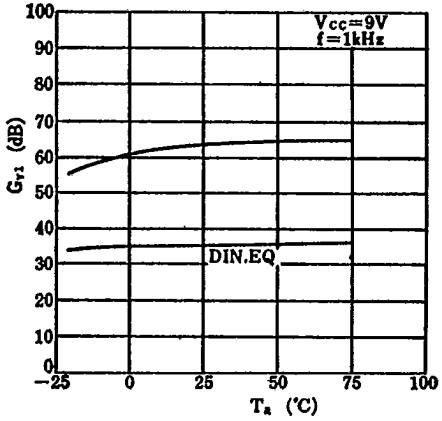


Figure 6

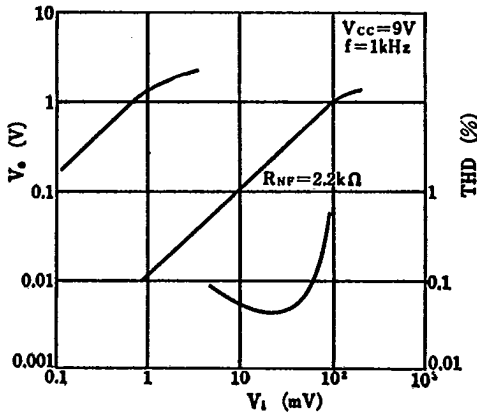


Figure 7

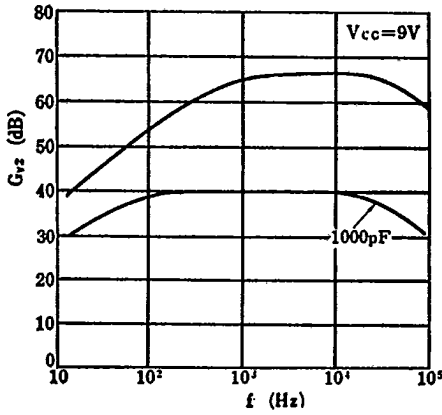


Figure 8

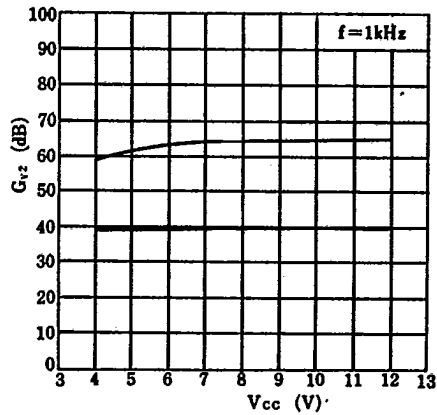


Figure 9

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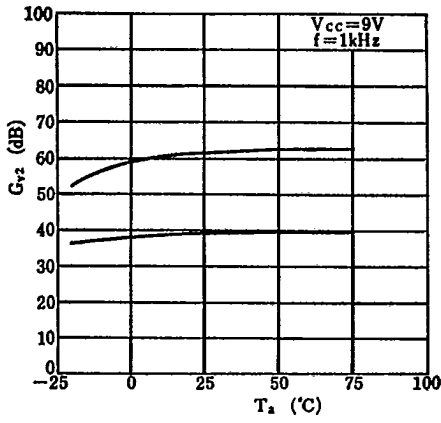


Figure 10

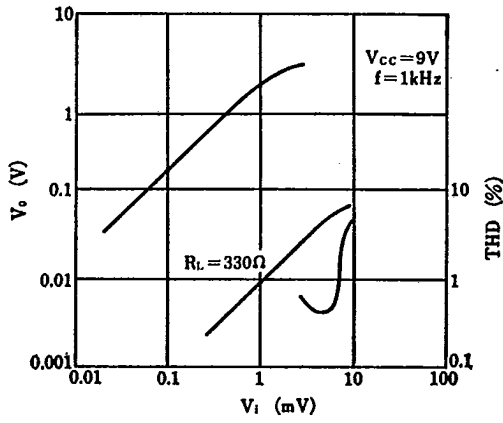


Figure 11

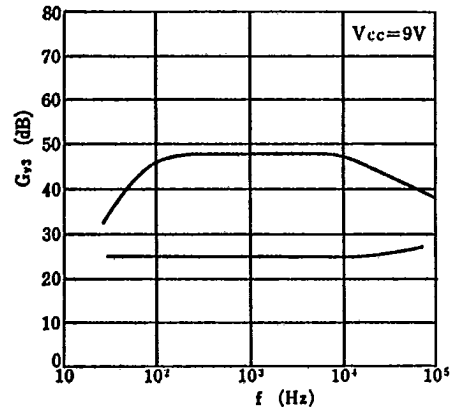


Figure 12

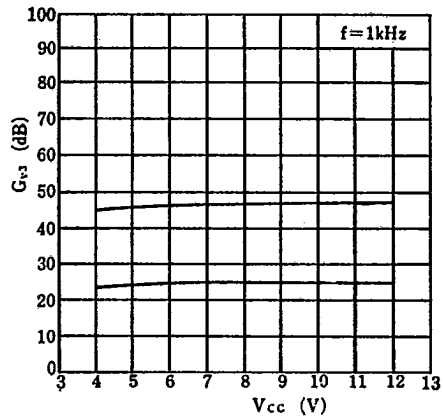


Figure 13

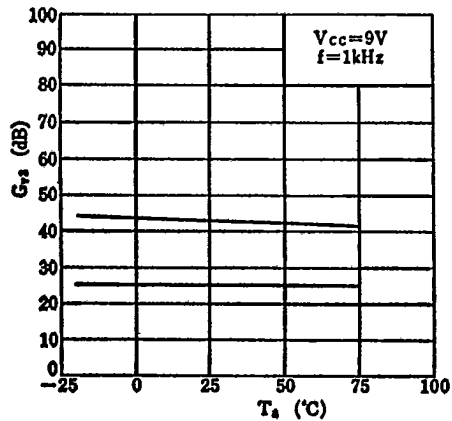


Figure 14

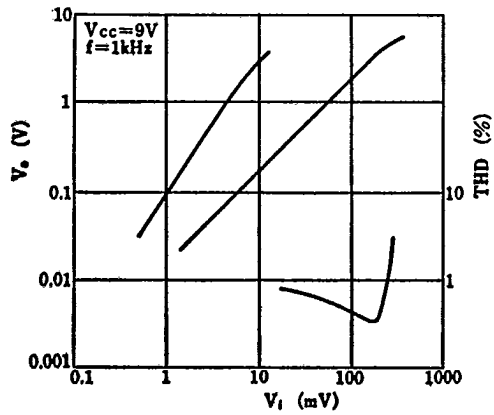


Figure 15

T-74-05-01

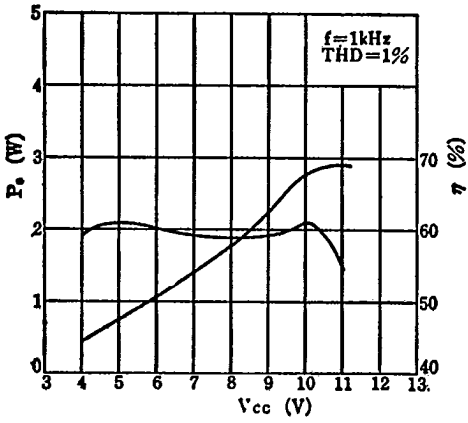


Figure 16

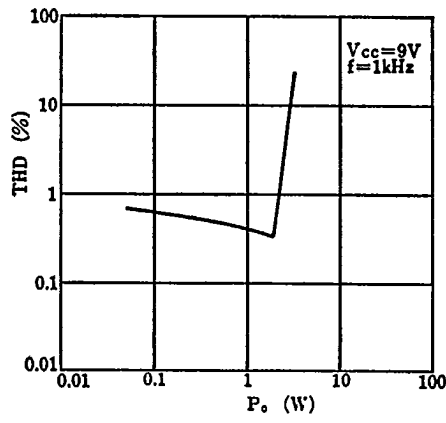


Figure 17

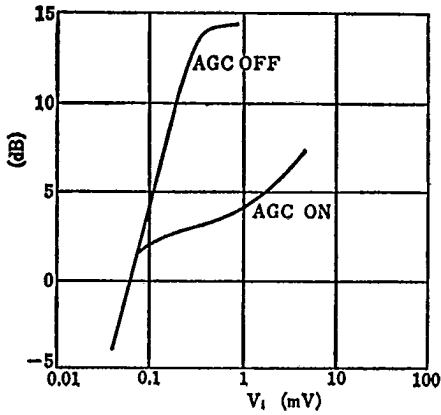


Figure 18

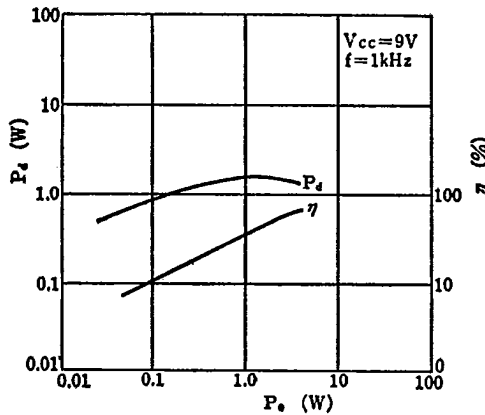


Figure 19

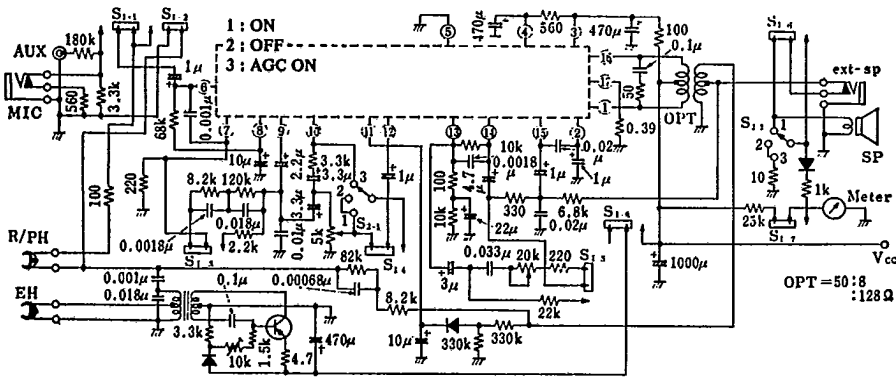


Figure 20

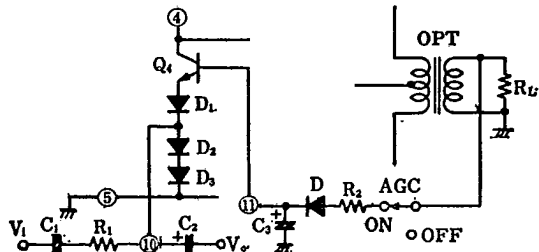


Figure 21

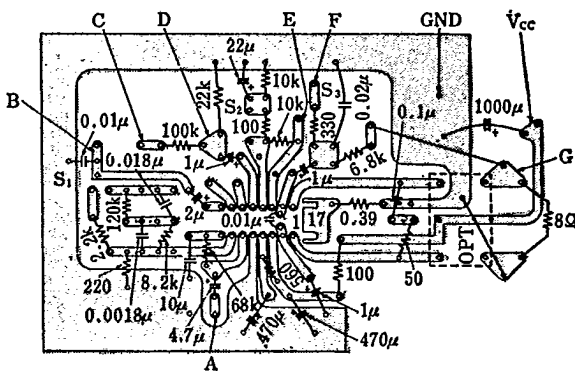


Figure 22