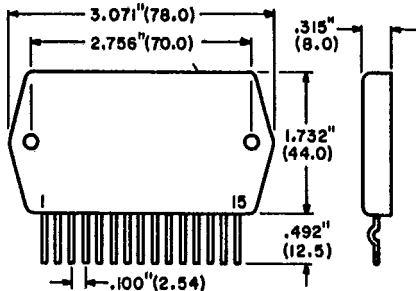


ECG1329

20 W AF Power Amplifier
Dual Channel

Features

- Minimum output power - 20 W
- Dual channel - single power supply
- Small shock noise
- Thick film hybrid



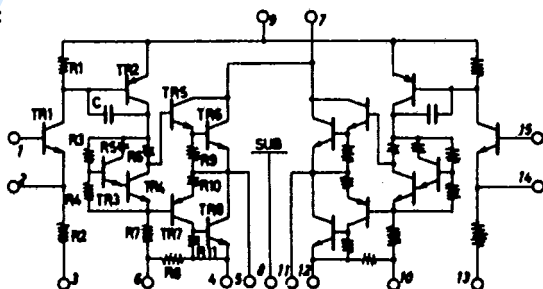
Absolute Maximum Ratings

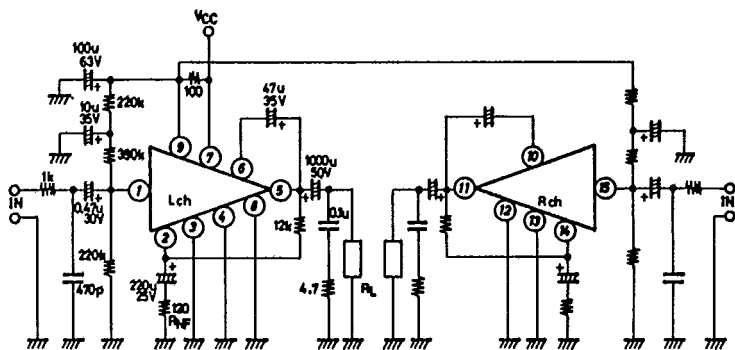
Characteristic	Symbol	Rating	Unit
Supply Voltage	V_{CC}	63	V
Operating Case Temperature	T_C	85	°C
Storage Temperature	T_{stg}	-30 to +100	°C
Allowable Load Shorting Time	t_s ($f = 60$ Hz)	2	sec

Operational Characteristics ($T_A = 25^\circ\text{C}$, $V_{CC} = 44$ V, $R_L = 8$ Ω , $R_g = 600$ Ω , $V_G = 40$ dB)

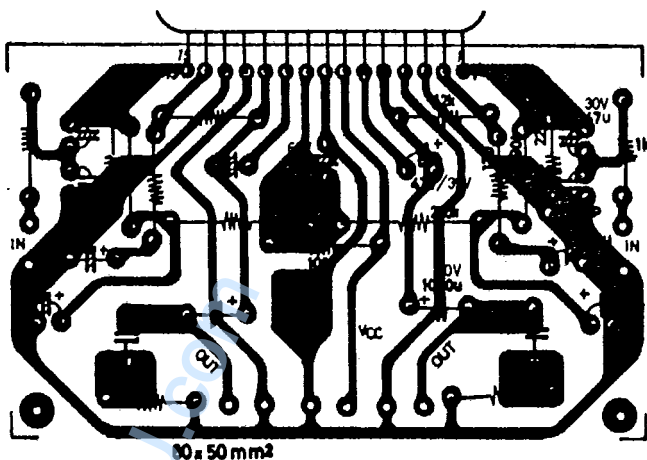
Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Quiescent Current	I_{CCQ}	$V_{CC} = 53$ V	20	60	120	mA
Output Power	$P_{O(1)}$	THD = 1.0%, $f = 1$ kHz	20			W
	$P_{O(2)}$	THD = 1.0%, $f = 30$ to 20 kHz	10			
Distortion	THD	$P_O = 0.1$ W, $f = 1$ kHz			0.3	%
Frequency Response	f	$P_O = 0.1$ W, +0 dB, -3 dB	20 to 100 K			Hz
Input Resistance	r_i	$P_O = 0.1$ W,		110 K		Ω
Noise Output Voltage	V_{NO}	$V_{CC} = 53$ V, $R_g = 10$ k Ω			0.8	mVrms

Equivalent Circuit

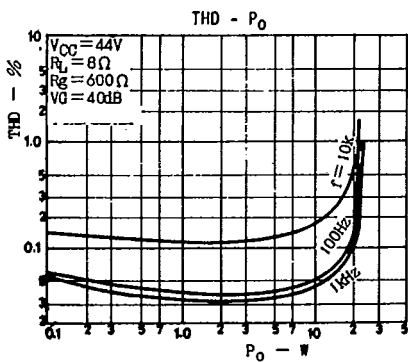
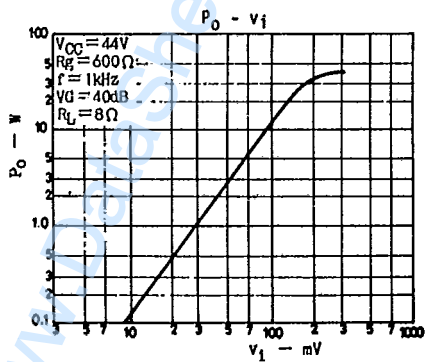


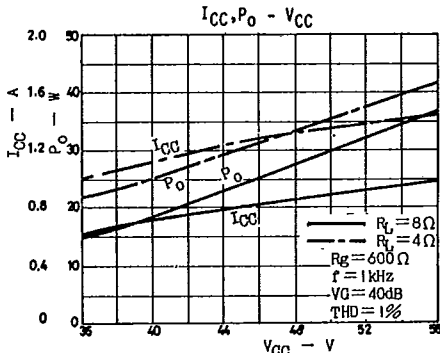
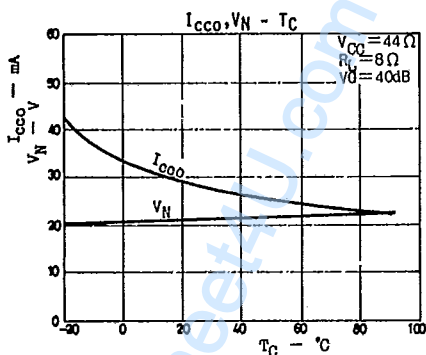
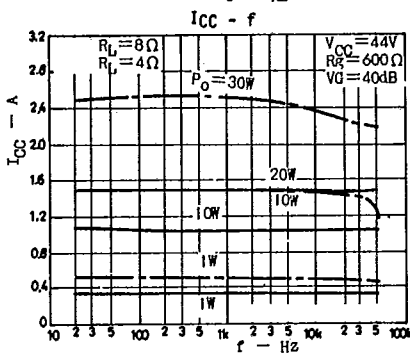
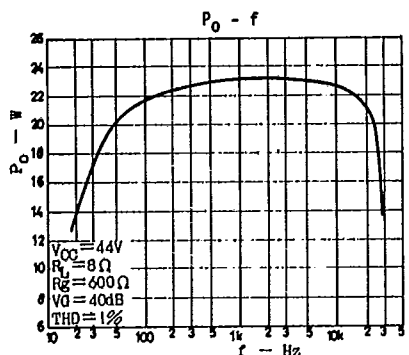
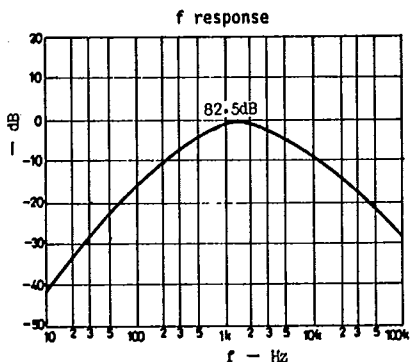
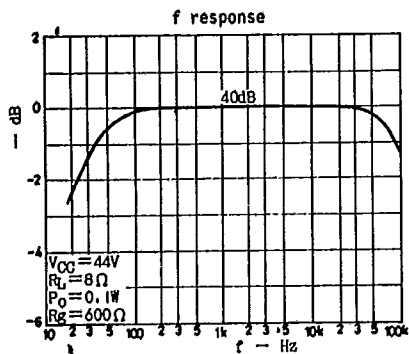


PC Board

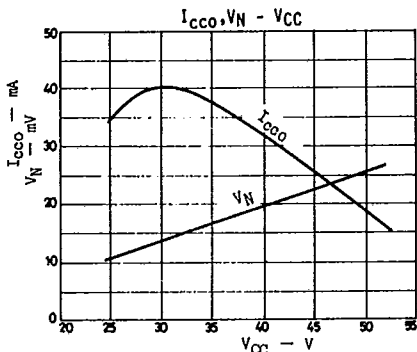
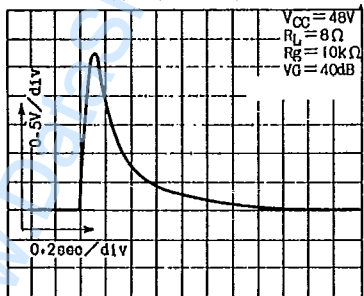


Typical Characteristics





Shock Noise Wave Form



Typical Characteristics (Cont.)

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