

# ECG<sup>®</sup>

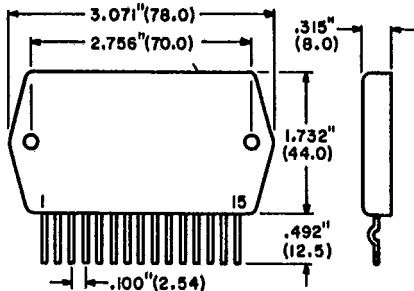
## Semiconductors

### 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



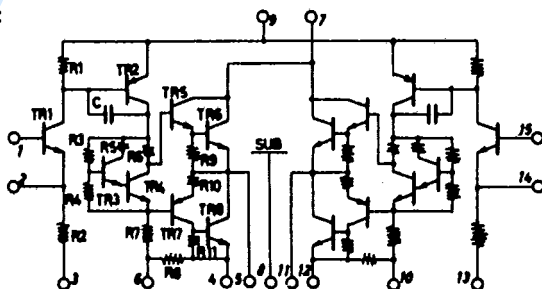
#### Absolute Maximum Ratings

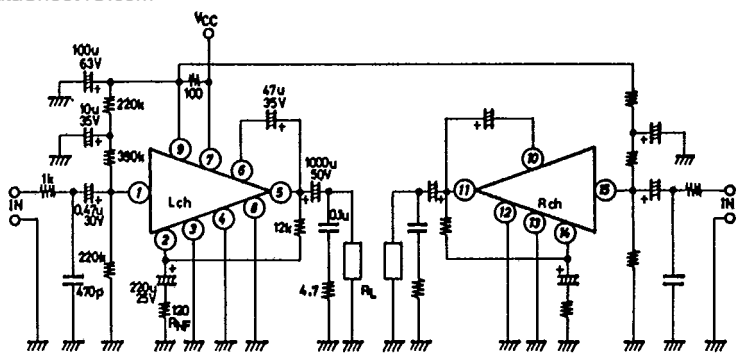
Characteristic	Symbol	Rating	Unit
Supply Voltage	$V_{CC}$	63	V
Operating Case Temperature	$T_C$	85	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$	-30 to +100	$^{\circ}\text{C}$
Allowable Load Shorting Time	$t_s$ ( $f = 60 \text{ Hz}$ )	2	sec

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

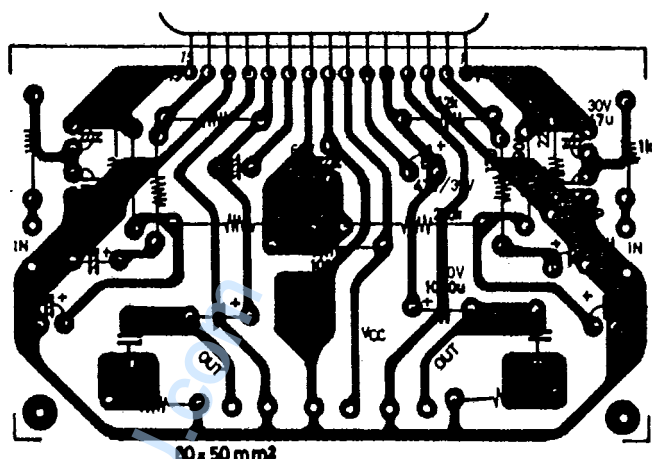
Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Quiescent Current	$I_{CCQ}$	$V_{CC} = 53 \text{ V}$	20	60	120	mA
Output Power	$P_{O(1)}$	THD = 1.0%, $f = 1 \text{ kHz}$	20			W
	$P_{O(2)}$	THD = 1.0%, $f = 30 \text{ to } 20 \text{ kHz}$	10			
Distortion	THD	$P_O = 0.1 \text{ W}$ , $f = 1 \text{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

#### Equivalent Circuit

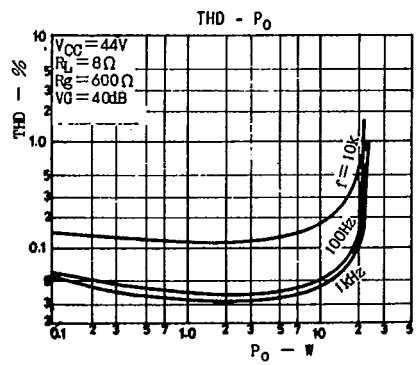
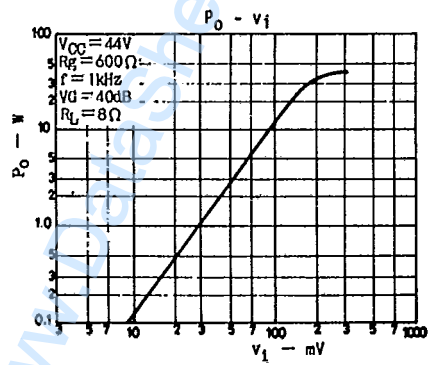


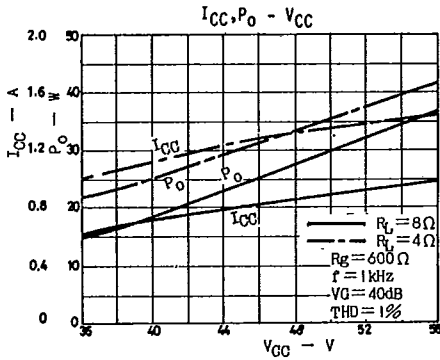
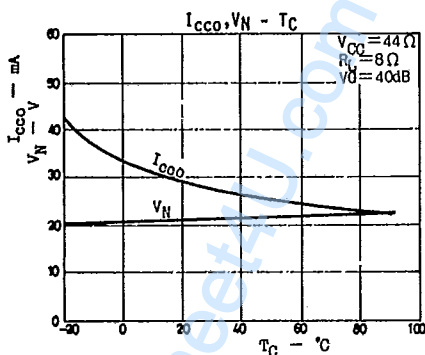
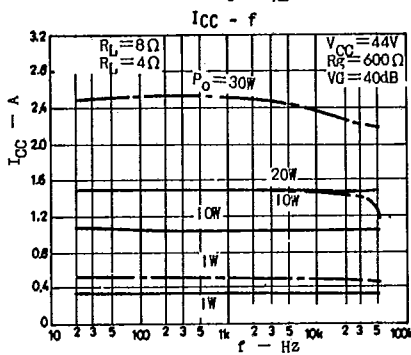
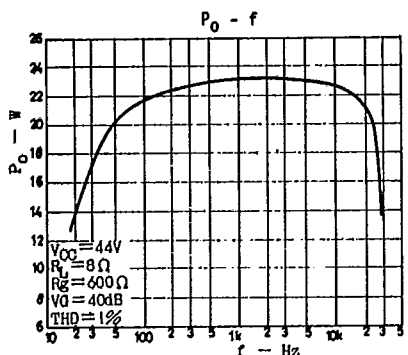
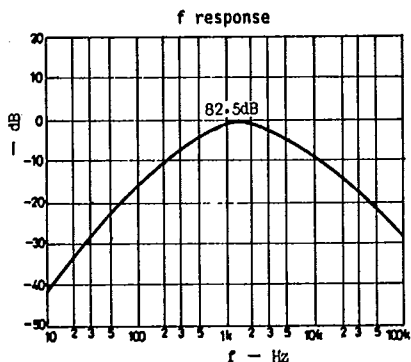
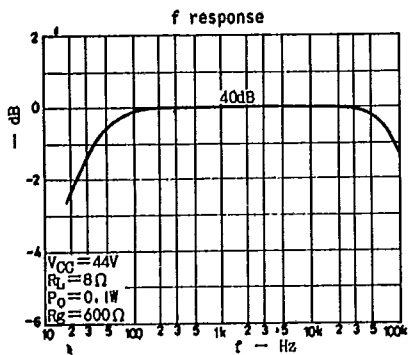


PC Board

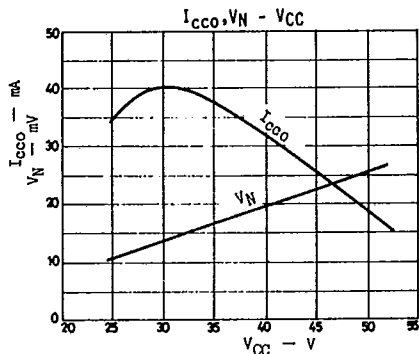
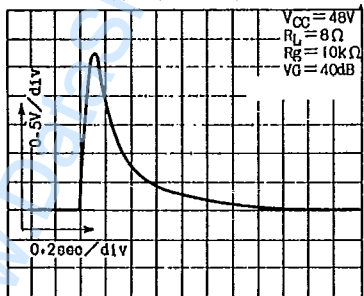


Typical Characteristics





Shock Noise Wave Form



# Typical Characteristics (Cont.)

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