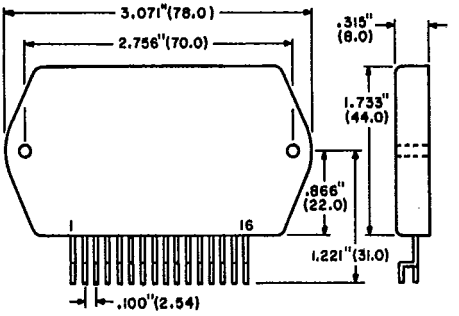
ECG® Semiconductors

ECG1324

AF Power Amplifier

Features

- Dual channel
- Dual power supply
- Thick film hybrid
- Minimum output power - 10 W



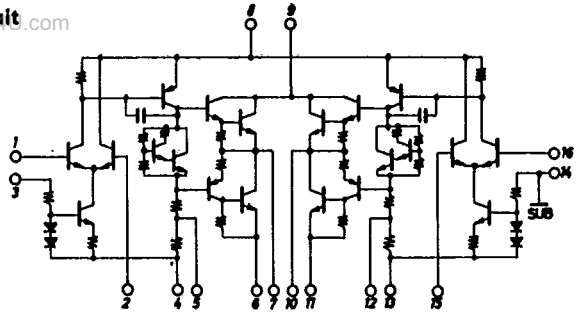
Absolute Maximum Ratings

Characteristic	Symbol	Rating	Unit
Supply Voltage	V_{CC}	±25	V
Operating Case Temperature	T_C	90	°C
Storage Temperature	T_{stg}	−30 to +100	°C
Allowable Load Shorting Time	t_s P_O = 10 W f = 50 Hz	2	sec

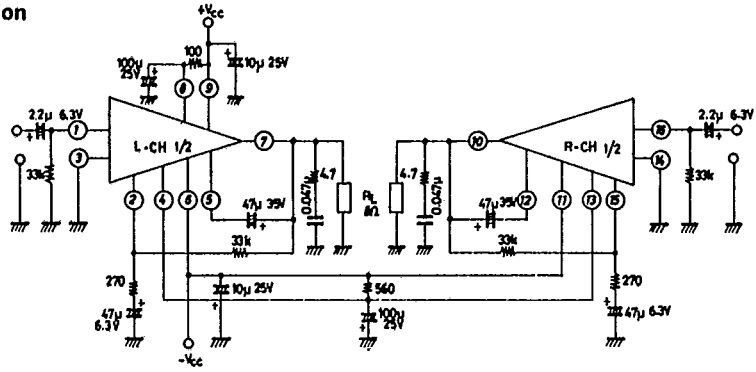
Operational Characteristics (T_A = 25°C, V_{CC} = 16.5 V, R_L = 8 Ω, R_g = 600 Ω, V_G = 41.5 dB)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Quiescent Current	I_{CCO}	V_{CC} = ±20 V		60	120	mA
Output Power	P_O(1)	THD = 0.9%, f = 1 kHz	10			W
	P_O(2)	THD = 0.9%, f = 20 to 20 kHz	5			
Distortion	THD	P_O = 1.0 W, f = 1 kHz			0.2	%
Frequency Response	f	P_O = 0.1 W, −3 dB	20 to 50 K			Hz
Input Resistance	r_i	P_O = 0.1 W, f = 1 kHz		32 K		Ω
Noise Output Voltage	V_{NO}	V_{CC} = ±20 V, R_g = 10 kΩ			1.3	mVrms

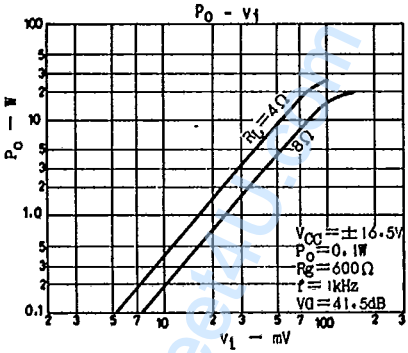
Equivalent Circuit

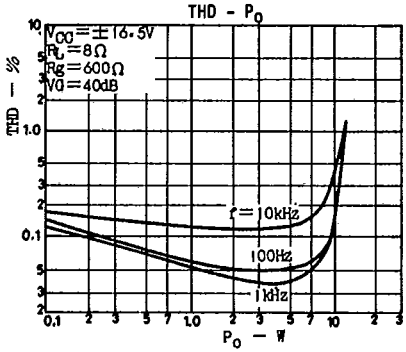


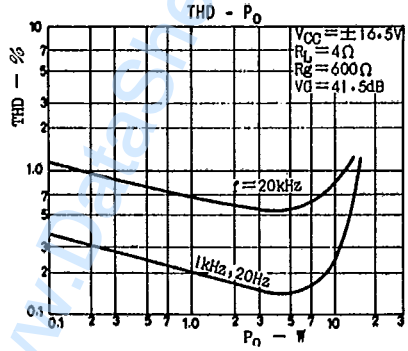
Application

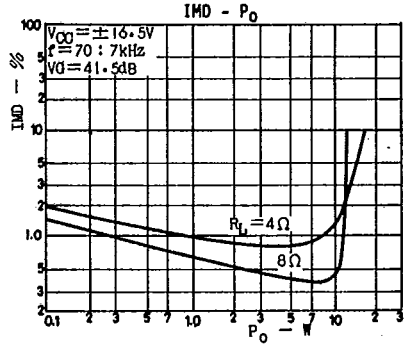


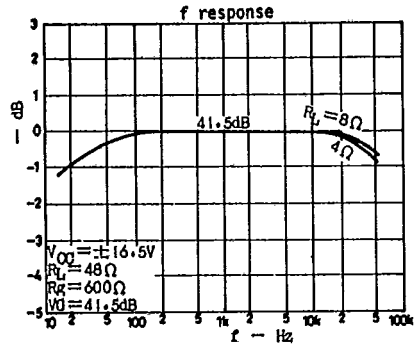
Typical Characteristics

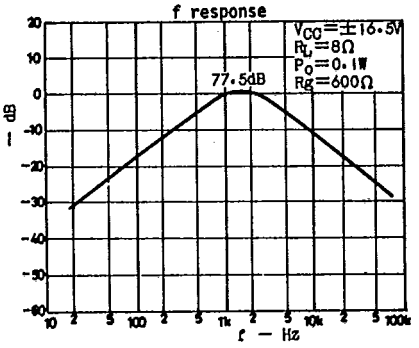


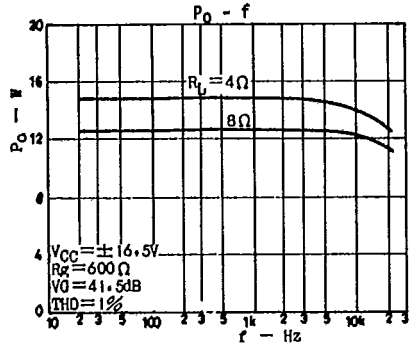


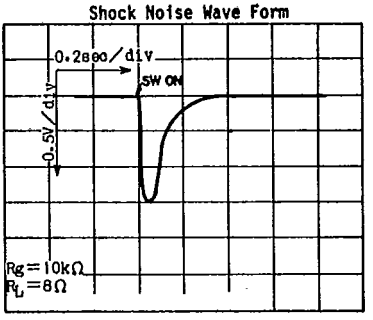


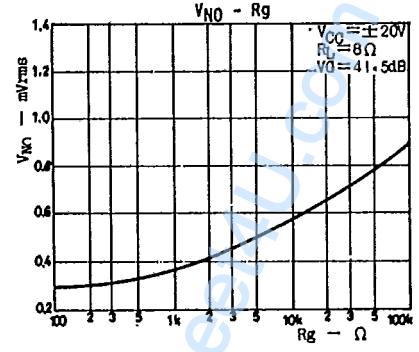


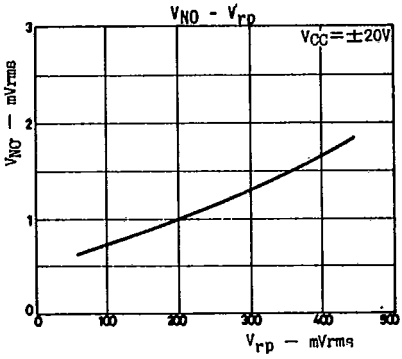


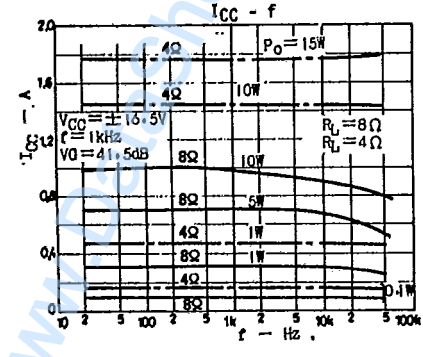


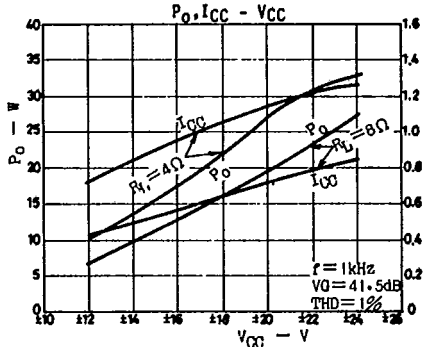












Typical Characteristics (Cont.)