



No.1625



STK4913

Thick Film Hybrid Integrated Circuit
2-CHANNEL 50W MIN AF POWER AMP
(DUAL-SUPPLY)

Features

- . Contains the emitter follower circuit for upgrading.
- . Case temperature 125°C is guaranteed, thereby greatly reducing the heat sink.
- . Pop noise generated at the time of power ON/OFF can be rejected by a muting circuit connected externally.

Maximum Ratings at Ta=25°C

		unit
Maximum Supply Voltage	V_{CCmax}	±50 V
Thermal Resistance	θ_{j-c}	1.5 °C/W
Junction Temperature	T_j	150 °C
Operating Case Temperature	T_c	125 °C
Storage Temperature	T_{stg}	-30 to +125 °C
Available Time for Load Shorted	t_s	$V_{CC}=\pm 35V, R_L=8\text{ohm}, P_o=50W, f=50\text{Hz}$ 2 sec

Recommended Operating Conditions at Ta=25°C

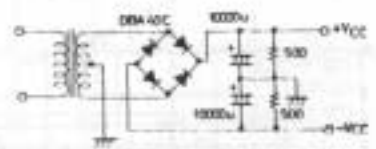
		unit
Recommended Supply Voltage	V_{CC}	±35 V
Load Resistance	R_L	8 ohm

Operating Characteristics at Ta=25°C, $V_{CC}=\pm 35V, R_L=8\text{ohm}$ (non-inductive), $R_g=600\text{ohm}$, $V_G=40\text{dB}$, at specified Test Circuit(based on Sample Application Circuit)

		min	typ	max	unit
Quiescent Current	I_{cco}	$V_{CC}=\pm 42V$	35	70	120 mA
Output Power	P_o	THD=0.02%, $f=20\text{Hz}$ to 20kHz	50		W
Total Harmonic Distortion	THD	$P_o=1W, f=20\text{Hz}$ to 20kHz		0.02	%
Frequency Response	f_L, f_H	$P_o=1W, +0$ dB	10	to 100k	Hz
Input Resistance	r_i	$P_o=1W, f=1\text{kHz}$	32k		ohm
Output Noise Voltage	V_{NO}	$V_{CC}=\pm 42V, R_g=10\text{kohm}$		1.2	mVrms
Output Middle-Point Voltage	V_N	$V_{CC}=\pm 42V$	-70	0	+70 mV

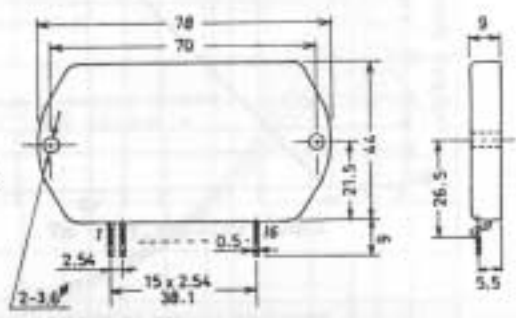
(Note)

- . For power supply at the time of test, use a constant-voltage power supply unless otherwise specified.
- . For measurement of the available time for load shorted and output noise voltage, use the specified transformer power supply shown right.
- . The output noise voltage is represented by the peak value on rms scale (VTVM) of average value indicating type. For AC power supply, use an AC stabilized power supply (50Hz) to eliminate the effect of flicker noise in AC primary line.



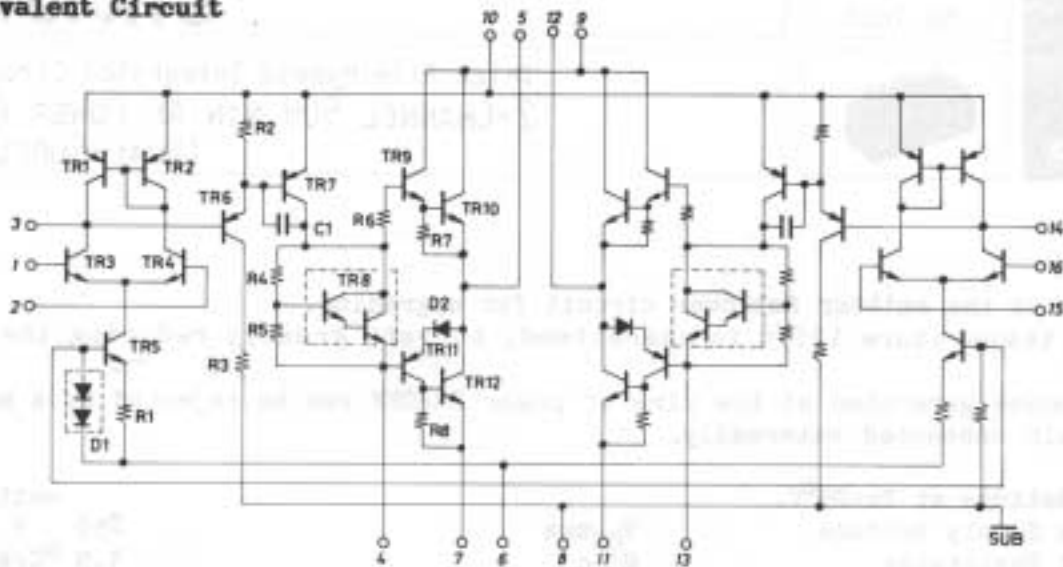
Specified transformer power supply (Equivalent to MG200)

Case Outline 4029 (unit:mm)

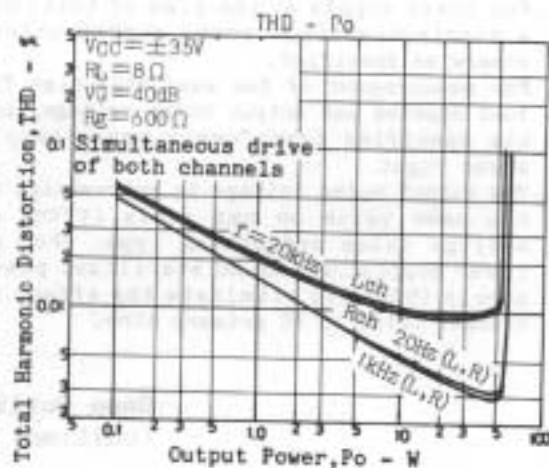
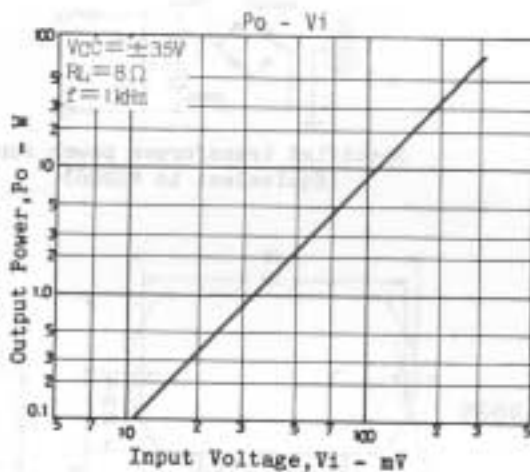
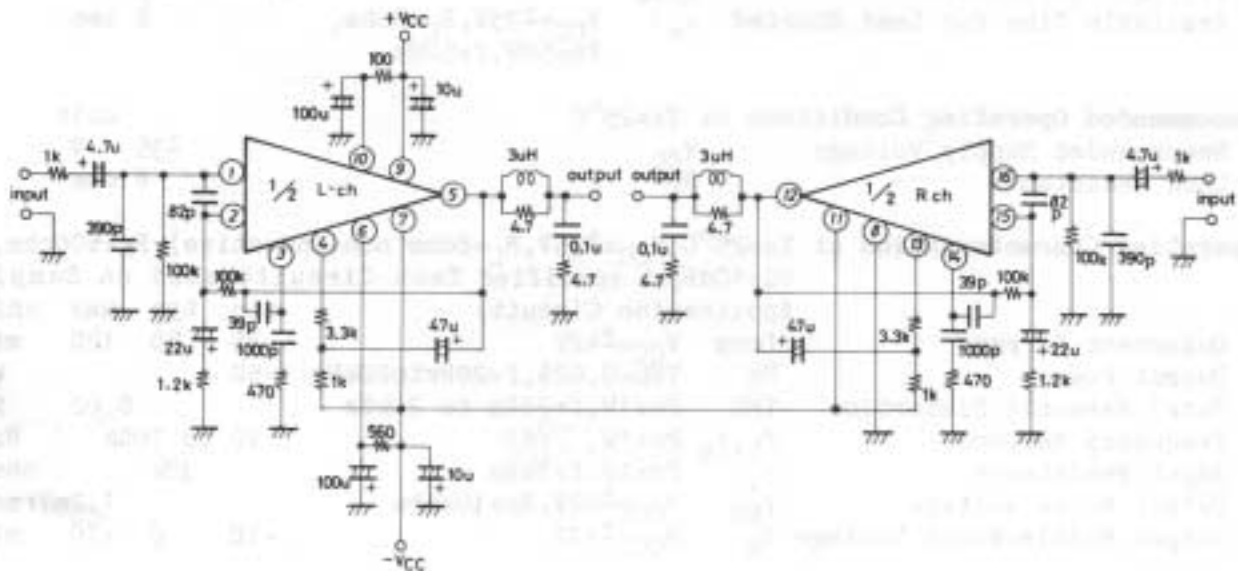


These specifications are subject to change without notice.

Equivalent Circuit



Sample Application Circuit : 50W min 2-channel AF Power amp



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