



SANYO SEMICONDUCTOR

STK-075

STK-075 Thick Film Hybrid Integrated Circuit 15W min.AF Power Amplifier (2 Power Supply)

Maximum Ratings at Ta=25°C

Maximum Supply Voltage	V _{CCmax}	±28	V
Operating Case Temperature	T _C	85	°C
Storage Temperature	T _{stg}	-30 to +100	°C
Allowable Load Shorting Time	t _s	V _{CC} =±24V*, f=50Hz V _O =11V(R _L open)	2 sec

Recommended Operation Condition at Ta=25°C

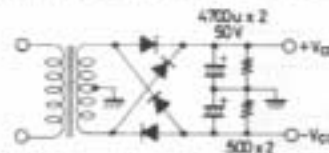
Recommended Supply Voltage	V _{CC}	±20	V
Load Resistance	R _L	8	ohm

Operation Characteristics at Ta=25°C, V_{CC}=±20V, R_L=8 ohm, R_g=600 ohm, V_G=26.4dB

		min	typ	max	unit
Quiescent Current	I _{CCQ} V _{CC} =±24V		50	100	mA
Output Power	P _O (1) THD=0.3%, f=20to20k Hz	15			W
	P _O (2) THD=0.3%, f=1kHz		18		W
	P _O (3) THD=0.3%, V _{CC} =±24V, f=1kHz		23		W
Total Harmonic Distortion	THD(1) P _O =0.1-15 W, f=20 to 20k Hz			0.3	%
	THD(2) P _O =1W, f=1kHz		0.03		%
Frequency Response	f P _O =1W, -1dB		10to100k		Hz
Input Impedance	r _i P _O =1W, f=1kHz		52k		ohm
Output Noise Voltage	V _{NO} V _{CC} =±24V*, R _g =10k ohm		0.3	0.5	mV _{rms}
Output Center Voltage	V _N V _{CC} =±24V	-70		+70	mV

* shows the case which transformer power supply used. Use a regulated voltage supply excepting *.

Recommended voltage supply



Equivalent Circuit and Case Outline (unit:mm)

