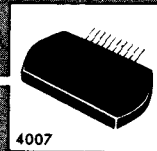
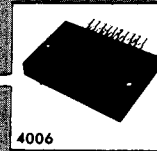


Capacitor 4006 4006
STK-075G,077G.
 4006 4007 4007
078G,080G,082G.
 4006 4007
083G

thick film hybrid IC

15 to 40W min
 AF POWER AMP.



Features

- © IMST, 1 Channel by 2 Power Supplies.
- AF output power STK-075G: 15W min., STK-077G: 20W min., STK-078G: 24W min., STK-080G: 30W min., STK-082G: 35W min., STK-083G: 40W min.
- Low distortion.
- Stable even at high temperature range.

MAXIMUM RATINGS / $T_a=25^\circ\text{C}$

		STK-075G	STK-077G	STK-078G	STK-080G	STK-082G	STK-083G	unit
Maximum Supply Voltage	V_{CC} max	± 28	± 33	± 35	± 40	± 43	± 46	V
Operating Case Temperature	T_C	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	105	$^\circ\text{C}$
Storage Temperature	T_{stg}	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	-30 to +105	$^\circ\text{C}$
Allowable Load Shorting Time (in appointed condition)	t_s	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	2	sec

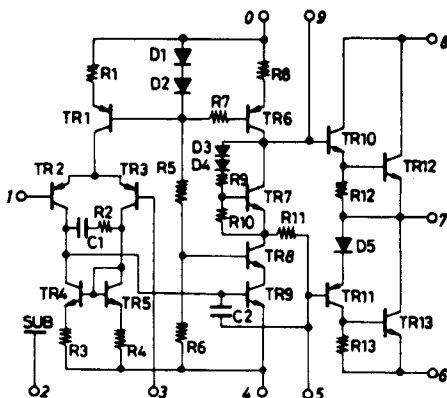
RECOMMENDED OPERATION CONDITION / $T_a=25^\circ\text{C}$

		STK-075G	STK-077G	STK-078G	STK-080G	STK-082G	STK-083G	unit
Recommended Supply Voltage	V_{CC}	± 20	± 23	± 25	± 27.5	± 30	± 32	V
Load Resistance	R_L	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	8	ohm

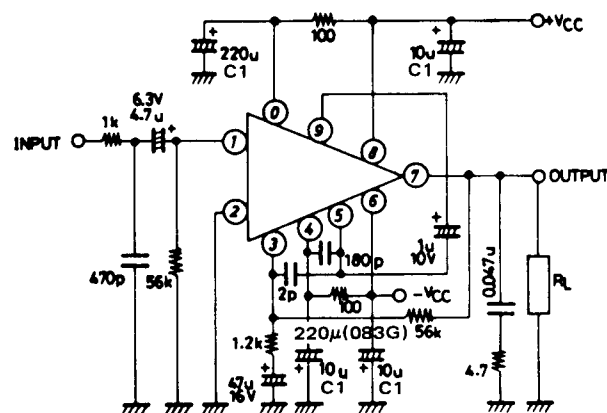
OPERATION CHARACTERISTICS / $T_a=25^\circ\text{C}$, recommended operating condition, $R_g=600\text{ohm}$, $V_g=33.4\text{dB}$

		STK-075G	STK-077G	STK-078G	STK-080G	STK-082G	STK-083G	unit
Quiescent Current	I_{CCO}	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	100	mAmax
Output Power	P_o THD=0.03% $f=20$ to 20kHz	15	20	24	30	35	40	Wmin
Distortion	THD $f=20$ to 20kHz rated output power	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	0.05	%max
Frequency Response	f $P_o=1\text{W}$, -1dB	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	10 to 100k	Hz
Input Resistance	r_i $P_o=1\text{W}$ $f=1\text{kHz}$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	52k	ohm

EQUIVALENT CIRCUIT



APPLICATION: AF Power Amp.



	C1
STK-075G, 077G, 078G	35V
STK-080G, 082G, 083G	50V

See the operation characteristics on this specification.