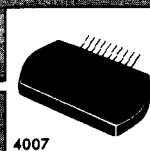


**STK-075,077,
078,080,082,
083**

thick film hybrid IC

15 to 40W min AF POWER AMP



Features

- © IMST, 1 Channel by 2 Power Supplies.
- AF output power STK-075: 15W min., STK-077: 20W min., STK-078: 24W min., STK-080: 30W min., STK-082: 35W min. STK-083: 40W min.
- Differential amp. constant current driving.
- Capable of tone controlling.
- STK-078-105 and STK-082-105 are for the use of $T_C=105^{\circ}\text{C}$.

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

		STK-075	STK-077	STK-078	STK-080	STK-082	STK-083	unit
Maximum Supply Voltage	$V_{CC\text{max}}$	± 28	± 32	± 35	± 39	± 43	± 46	V
Operating Case Temperature	T_C	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	85	90	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	-30 to +100	$^{\circ}\text{C}$
Allowable Load Shorting Time (in appointed condition)	t_s	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	2	sec

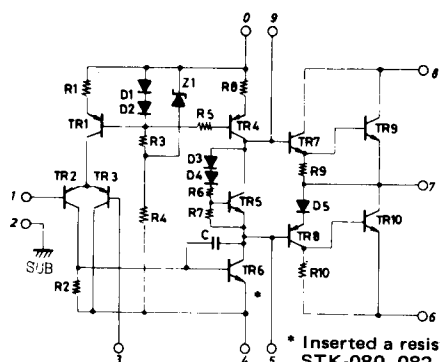
RECOMMENDED OPERATION CONDITION / $T_a=25^{\circ}\text{C}$

		STK-075	STK-077	STK-078	STK-080	STK-082	STK-083	unit
Recommended Supply Voltage	V_{CC}	± 20	± 22	± 25	± 27	± 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, $R_g=600\text{ohm}$, $V_G=26.4\text{dB}$

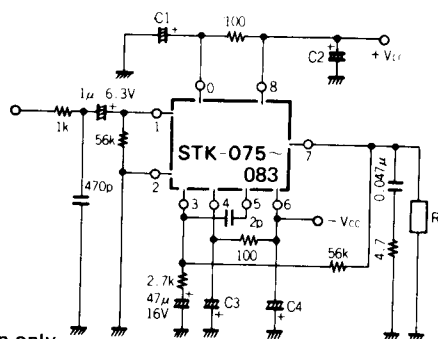
		STK-075	STK-077	STK-078	STK-080	STK-082	STK-083	unit
Quiescent Current	I_{CCQ}	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	100mA max
Output Power	$P_o(1)$ THD=0.3%, f=20 to 20kHz	15	20	—	—	—	—	Wmin
	$P_o(2)$ THD=0.2%, f=20 to 20kHz	—	—	24	30	35	40	Wmin
Distortion	THD f=20 to 20kHz, rated output power	0.3	0.3	0.2	0.2	0.2	0.2	%max
Frequency Response	f $P_o=1\text{W}$, -1dB	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	10 to 100k Hz
Input Resistance	r_i $P_o=1\text{W}$, f=1kHz	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	52k ohm

EQUIVALENT CIRCUIT



* Inserted a resistor in only STK-080, 082, 083.

APPLICATION



	STK-075, 77, 78	STK-080, 82, 83
C1	220μ/35V	220μ/50V
C2	10μ/35V	10μ/50V
C3	220μ/35V	220μ/50V
C4	10μ/35V	10μ/50V

See the operation characteristics on this specification.