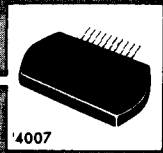


# STK-084,086, 085-105

thick film hybrid IC

50 to 70W min AF POWER



## Features

- © IMST, 1 Channel by 2 Power Supply.
- AF Output Power STK-084: 50 Wmin.  
STK-085-105: 60 Wmin.  
STK-086: 70 Wmin.
- Capable of setting protector for load shorting and tone controller.

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

		STK-084	STK-085 -105	STK-086	unit
Maximum Supply Voltage	$V_{CC}$ max	$\pm 50$	$\pm 55$	$\pm 55$	V
Collector Current	$I_C$ max	7	—	7	A
Thermal Coefficient	$\theta_{j-c}$ ( $T_C=25^\circ\text{C}$ )	1.7	—	1.4	$^\circ\text{C/W}$
Operating Case Temperature	$T_C$	85	105	85	$^\circ\text{C}$
Storage Temperature	$T_{sgt}$	-30 to +100	-30 to +105	-30 to +100	$^\circ\text{C}$

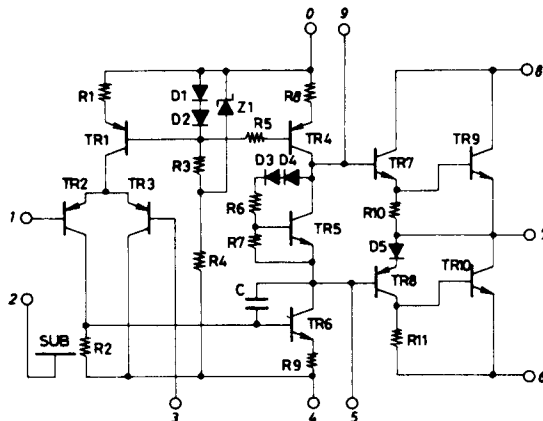
## RECOMMENDED OPERATION CONDITION / $T_a=25^\circ\text{C}$

		STK-084	STK-085 -105	STK-086	unit
Recommended Supply Voltage $V_{CC}$		$\pm 35$	$\pm 38$	$\pm 42$	V
Load Resistance	$R_L$	$\rightarrow$	$\rightarrow$	8	ohm

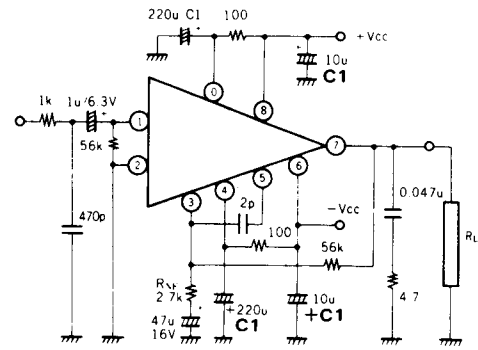
## OPERATION CHARACTERISTICS / $T_a=25^\circ\text{C}$ , recommended $V_{CC}$ supplied, $R_L=8$ ohm, $R_g=600$ ohm, $V_G=26.4\text{dB}$

		STK-084	STK-085 -105	STK-086	unit
Quiescent Current	$I_{CCO}$	$\rightarrow$	$\rightarrow$	100	mAmax
Output Power	$P_o$	50	60	70	Wmin
	THD=0.2%, $f=20$ to $20$ kHz				
Distortion	THD	$\rightarrow$	$\rightarrow$	0.2	%max
	$f=20$ to $20$ kHz rated output power				
Frequency Response	$P_o=1\text{W}$ , $+0$ $-1$ dB	$\rightarrow$	$\rightarrow$	10 to 100k	Hz
Input Resistance	$r_i$	$\rightarrow$	$\rightarrow$	52k	ohm
	$P_o=1\text{W}$ , $f=1$ kHz				

## EQUIVALENT CIRCUIT



## APPLICATION: AF Power Amp.



	C1
STK-084	50V
STK-085-105 STK-086	63V

See the operation characteristics on this specification.