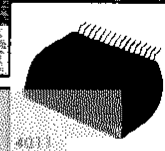


STK-457, 459, 460,  
461, 463, 465

thick film hybrid IC

2 POWER 2 CHANNEL

10 to 30 W min AF POWER AMP.



#### Features

- © IMST, 2 Channels by 2 Power Suppliers.
- AF output power STK-457: 10W min., STK-459: 15W min., STK-460: 20W min., STK-461: 20W min., STK-463: 25W min., STK-465: 30W min.

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

		STK-457	STK-459	STK-460	STK-461	STK-463	STK-465	unit
Maximum Supply Voltage	$V_{CC}$ max	$\pm 26$	$\pm 31$	$\pm 32$	$\pm 33$	$\pm 38$	$\pm 41$	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

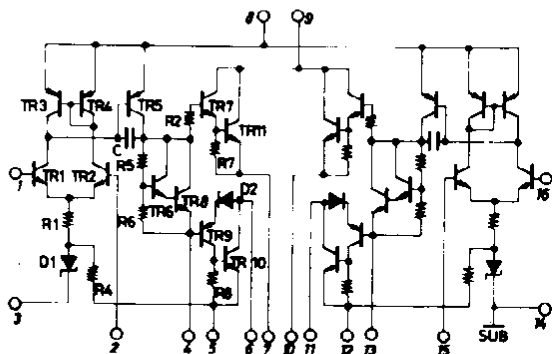
#### RECOMMENDED OPERATION CONDITION / $T_a=25^\circ\text{C}$

		STK-457	STK-459	STK-460	STK-461	STK-463	STK-465	unit
Recommended Supply Voltage	$V_{CC}$	$\pm 18$	$\pm 21$	$\pm 23$	$\pm 23$	$\pm 26$	$\pm 28$	V
Load Resistance	$R_L$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	8	ohm

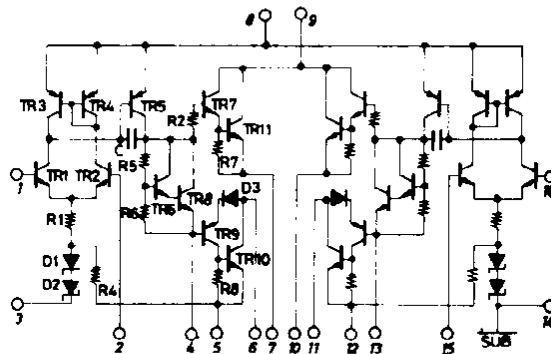
#### OPERATION CHARACTERISTICS / $T_a=25^\circ\text{C}$ , recommended condition $R_g=600$ ohm, $V_G=40\text{dB}$

		STK-457	STK-459	STK-460	STK-461	STK-463	STK-465	unit
Quiescent Current	$I_{CCO}$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	120	mAmax
Output Power	$P_o$ THD=0.08% $f=20\sim 20\text{kHz}$	10	15	20	20	25	30	Wmin
Distortion	THD $P_o=1\text{W}$ $f=20\sim 20\text{kHz}$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	0.08	%max
Frequency Response	$f$ $P_o=1\text{W}, \pm 0.3\text{dB}$ $f=1\text{kHz}$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	10 to 100k	Hz
Input Resistance	$r_i$ $P_o=1\text{W},$ $f=1\text{kHz}$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	$\rightarrow$	32k	ohm

#### EQUIVALENT CIRCUIT



STK-457, 459, 460



STK-461, 463, 465

#### APPLICATION: AF Power Amp.

