

STK022THICK FILM HYBRID INTEGRATED CIRCUIT
FOR 15WATTS TYP. AF POWER AMPLIFIER
(2 POWER SUPPLY)ABSOLUTE MAXIMUM RATINGS/ $T_a=25^{\circ}\text{C}$

Maximum Supply Voltage	$V_{CC \text{ max}}$	$\begin{smallmatrix} +25 \\ - \end{smallmatrix}$	V
Available Load Shorting Time	$V_{CC} = \begin{smallmatrix} + \\ - \end{smallmatrix} 19\text{V}, P_O = 15\text{W}, R_L = 8, f = 50\text{Hz}$	2	sec
Operating Case Temperature	T_c	85	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-30 - +100	$^{\circ}\text{C}$

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

Recommended Supply Voltage	V_{CC}	$\begin{smallmatrix} +19 \\ - \end{smallmatrix}$	V
Load Resistance	R_L	8	Ω

OPERATION CHARACTERISTICS/ $T_a=25^{\circ}\text{C}, V_{CC} = \begin{smallmatrix} + \\ - \end{smallmatrix} 19\text{V}, R_L = 8\Omega, R_g = 600\Omega, f = 1\text{KHz}$

		min	typ	max	Unit
Total Current	I_{CCO}	10	30	50	mA
Output Power	P_O $KF=1.0\%$	15			W
Voltage Gain	V_G $P_O=0.1\text{W}$	32	33	34	dB
Distortion	KF $P_O=0.1\text{W}$			0.5	%
Input Impedance	r_i $P_O=0.1\text{W}$	20K	27K		Ω
High Cut-off Frequency	f_{CH} $V_i=50\text{mV}, -3\text{dB}$	100K			Hz
Low Cut-off Frequency	f_{CL} $V_i=50\text{mV}, -3\text{dB}$			10	Hz
Power Bandwidth	PBW $KF=1.0\%, \begin{smallmatrix} + \\ - \end{smallmatrix} 3\text{dB}$		20 - 20K		Hz
Output Center Point DC Voltage	ΔV_N	-70	0	+70	mV
Output Noise Voltage	V_{NO} $R_g=2.2\text{K}\Omega$			1.5	mV

CASE OUTLINE(unit: mm)

STK-022

