

STK022

THICK 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	$V_{CC \text{ max}}$	+25	V
Available Load Shorting Time	$V_{CC} = \pm 19\text{V}, P_O = 15\text{W}, R_L = 8\Omega, f = 50\text{Hz}$	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	$V_{CC}$	+19	V
Load Resistance	$R_L$	8	$\Omega$

OPERATION CHARACTERISTICS/ $T_a=25^\circ\text{C}, V_{cc} = \pm 19\text{V}, R_L = 8\Omega, R_g = 600\Omega, f = 1\text{KHz}$

		min	typ	max	Unit
Total Current	$I_{CCO}$	10	30	50	mA
Output Power	$P_O$ KF=1.0%	15			W
Voltage Gain	VG $P_O = 0.1\text{W}$	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		$\Omega$
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%, $\pm 3\text{dB}$		20 - 20K		Hz
Output Center Point DC Voltage	$\Delta V_N$	-70	0	+70	mV
Output Noise Voltage	$V_{NO}$ $R_g = 2.2\text{K}\Omega$			1.5	mV

CASE OUTLINE(unit: mm)

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