WIDEBAND LINEAR HYBRID AMPLIFIER

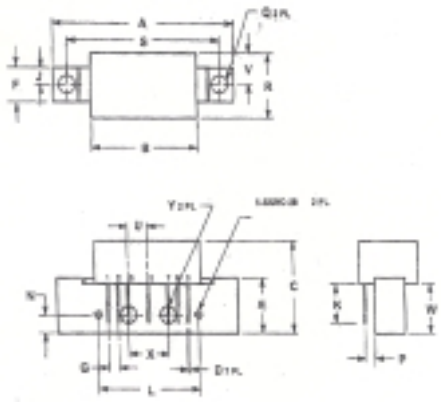
DESCRIPTION:

The **ASI CA2870** Is a Hybrid Amplifier Designed for Low Noise applications in RF amplifiers for VHF and UHF from 20 to 400 MHz.

MAXIMUM RATINGS

V_{CC}	28 V
P_{in}	+ 5.0 dBM
T_C	-40 °C to +100 °C
T_{STG}	-55 °C to +125 °C

PACKAGE STYLE CA



1 = RF INPUT
5 = VDC
2,3,7,8 = GROUND
9 = RF OUTPUT

DIM	INCHES MIN	INCHES MAX	MILLIMETERS MIN	MILLIMETERS MAX
A	-----	1.775	-----	45.08
B	-----	1.085	-----	27.56
C	-----	0.840	-----	21.34
D	0.018	0.022	0.46	0.56
E	0.485	0.510	11.81	12.95
F	0.300	0.325	7.62	8.25
G	0.100 BSC		2.54 BSC	
J	0.155 BSC		3.96 BSC	
K	0.315	0.355	8.00	8.50
L	1.00 BSC		25.40 BSC	
N	0.165 BSC		4.19 BSC	
P	0.100 BSC		2.54 BSC	
Q	0.148	0.168	3.76	4.27
R	-----	0.600	-----	15.24
S	1.500 BSC		38.10 BSC	
U	0.200 BSC		5.08 BSC	
V	----	0.250	----	6.35
W	0.435	0.450	11.05	11.43
X	0.400 BSC		10.16 BSC	
Y	0.152	0.163	3.85	4.15

CHARACTERISTICS: T_C = 25 °C

SYMBOL	TEST CONDITIONS		MINIMUM	TYPICAL	MAXIMUM	UNITS
P_G	f = 100 MHz		32.5		32.5	dB
NF	f = 30 MHz f = 400 MHz			4.5 7.5	6.0 8.5	dB
I_{TO}	f = 300 MHz		=42	+45		dBm
V_{SRW}	f = 20 to 400 MHz	Input VSRW fo 50 Ω systems Output VSRW fo 50 Ω systems		1.5:1 1.8:1	2.0:1 2.0:1	---
I_{CC}	V_{CE} = 24 V		270	300	330	mA
P_O	f = 225 MHz f = 400 MHz	1 dB Compression	800 400	850 500		mW
P_{RI}	f = 20 to 400 MHz		45	48		dB
F_R	f = 20 to 400 MHz			± 0.5	± 1.0	dB
dso	f_{2H} = 20 to 400 MHz	P_O = 100 mW	-45	-52		dB
PEP	f = 20 to 400 MHz	@ -32 dB	400	500		mW

Specifications are subject to change without notice.