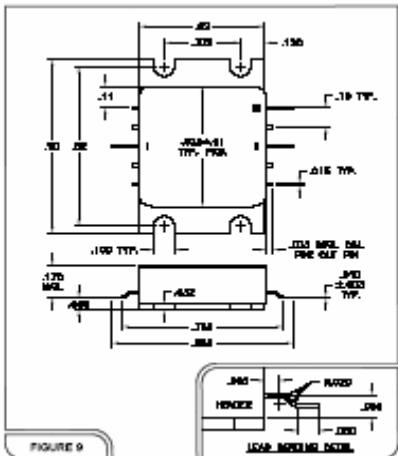


# **ASC228C 200-2500MHz. WideBand Amplifier**



### Features: (typical values)

- Wideband ..... 200-2500 MHz
  - High Second Order IP2 ..... +52.0 dBm.
  - High Third Order IP3 ..... +42.0 dBm.

## **Specifications (Referenced to 50 ohms)**

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		200	2500	MHz.
Gain	16	14.0		dB.
Gain Flatness	±0.2		±0.5	dB.
Gain Var.vs Temp.	±0.5		±1.0	ΔdB.
Pout @ 1dBComp.	+24	+22		dBm.
Noise Figure	5.0		6.0	dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)*	42/52	40/48		dBm.
HIP2 (2 <sup>nd</sup> har)	57			dBm
VSWR In	1.35:1		1.7:1	Ratio
VSWR Out	1.5:1		1.7:1	Ratio
Supply Req'd	+15/220		+15/270	v/mA.

Min. and max. values are from 0°C to +85°C

\*IP3 and IP2 are in band output intercept points

## **Maximum Ratings**

- |                           |                 |
|---------------------------|-----------------|
| Storage Temperature ..... | -62°C to +125°C |
| DC Voltage .....          | +17 volts       |
| RF Input Power .....      | +20.0 dBm.      |
| Case Temperature .....    | +95°C           |

