

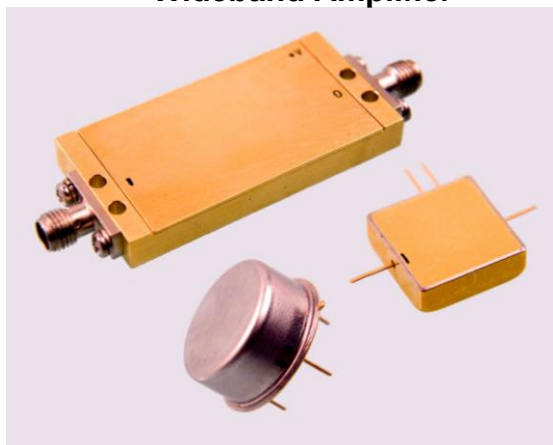
**Features: (typical values)**

- Medium IP3 ..... +30 dBm.
- Medium P1dB ..... +18 dBm.
- Medium Gain ..... +20.0 dB.
- Super low cost
- No external components required

**Maximum Ratings**

Storage Temperature ..... -62°C to +125°C  
 DC Voltage ..... +17 volts  
 RF Input Power ..... +13.0 dBm.  
 Case Temperature ..... +95°C

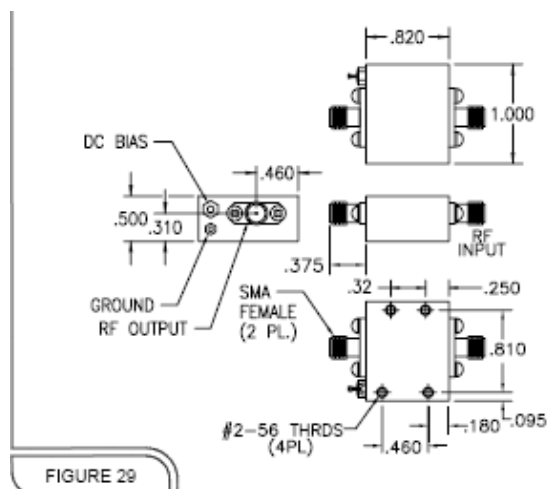
**10-2000 MHz  
Wideband Amplifier**



Specifications (Referenced to 50 ohms)

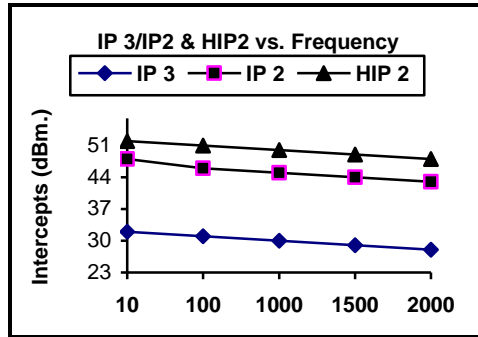
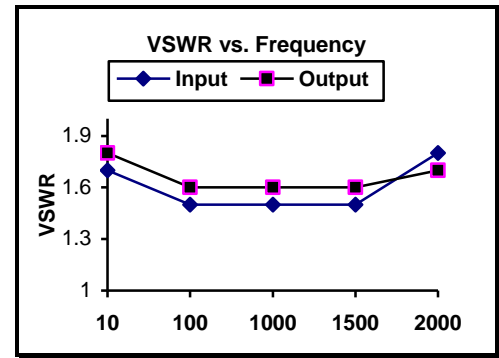
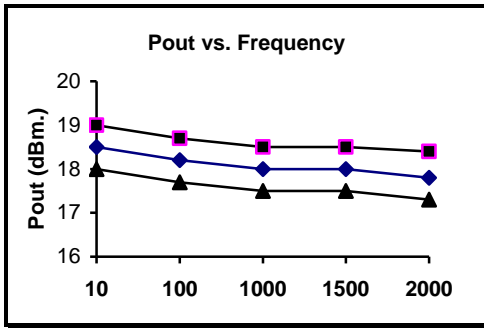
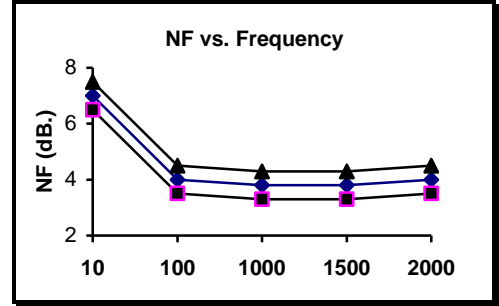
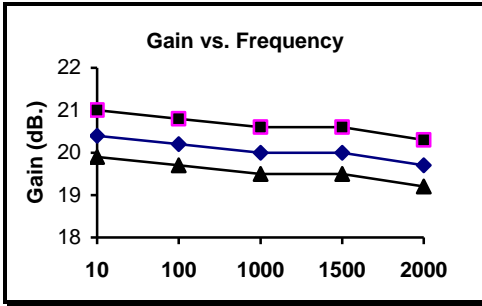
Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency		10	2000	MHz.
Gain	20.0	18.0		dB.
Gain Flatness	±0.3		±1.0	dB.
Gain Var. over temp	0.7			ΔdB.
Pout @ 1dB Comp	+18.0	+16.0		dBm.
NF @ 10MHz	7.0		8.0	dB.
NF 100MHZ – 2000MHZ	4.0		6.0	dB.
Reverse Isolation	19.0			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)	30/45	27/43		dBm.
HIP <sub>2</sub> (2 <sup>nd</sup> harm.)	50.0			dBm.
VSWR In/Out	1.7:1		2.0:1	ratio
Supply Required	+15/90		+15/105	v/mA.

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



**Typical Performance Curves**

■ -0°C - ◆ +25°C - ▲ +85°C



FUNCTIONAL BLOCK DIAGRAM

