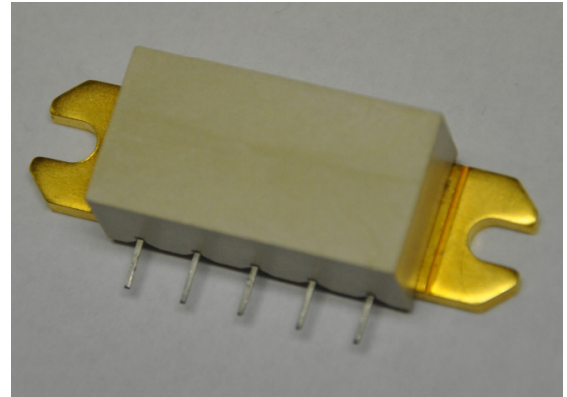


**Features: (typical values)**

- Ultra High Linearity
- Low Noise Figure
- Rugged Construction
- Single voltage supply
- Usable for 50 ohm operation
- Unconditional Stability
- No external components required

**20 – 550 MHz  
22dB Ultra-linear  
Amplifier**



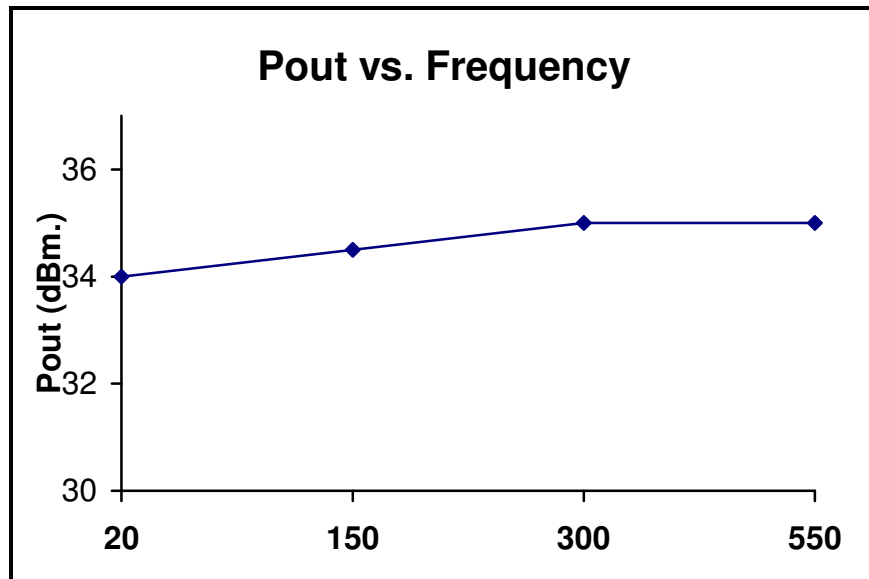
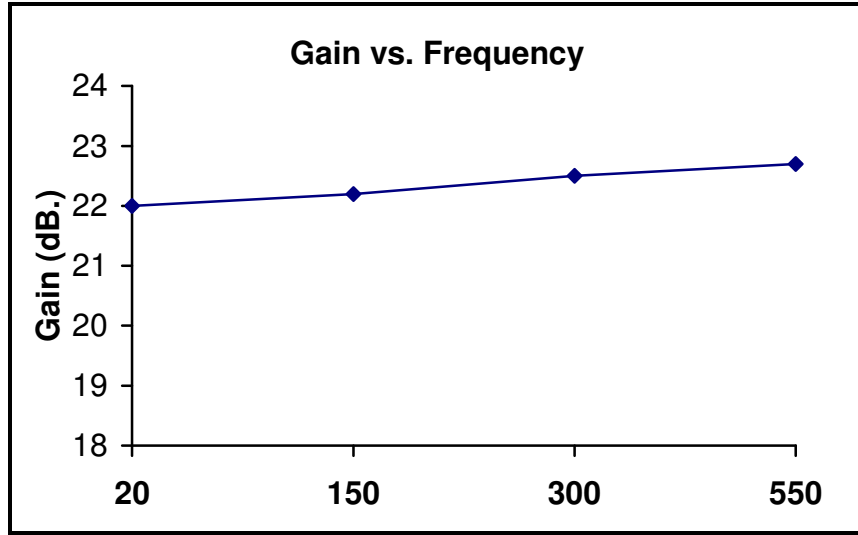
**Maximum Ratings**

Storage temperature ..... -40°C to +100°C  
 DC Operating Voltage ..... +26.0 volts  
 RF Input Voltage ..... 40 dBmV max.  
 Operating Base Temp. .... +100°C

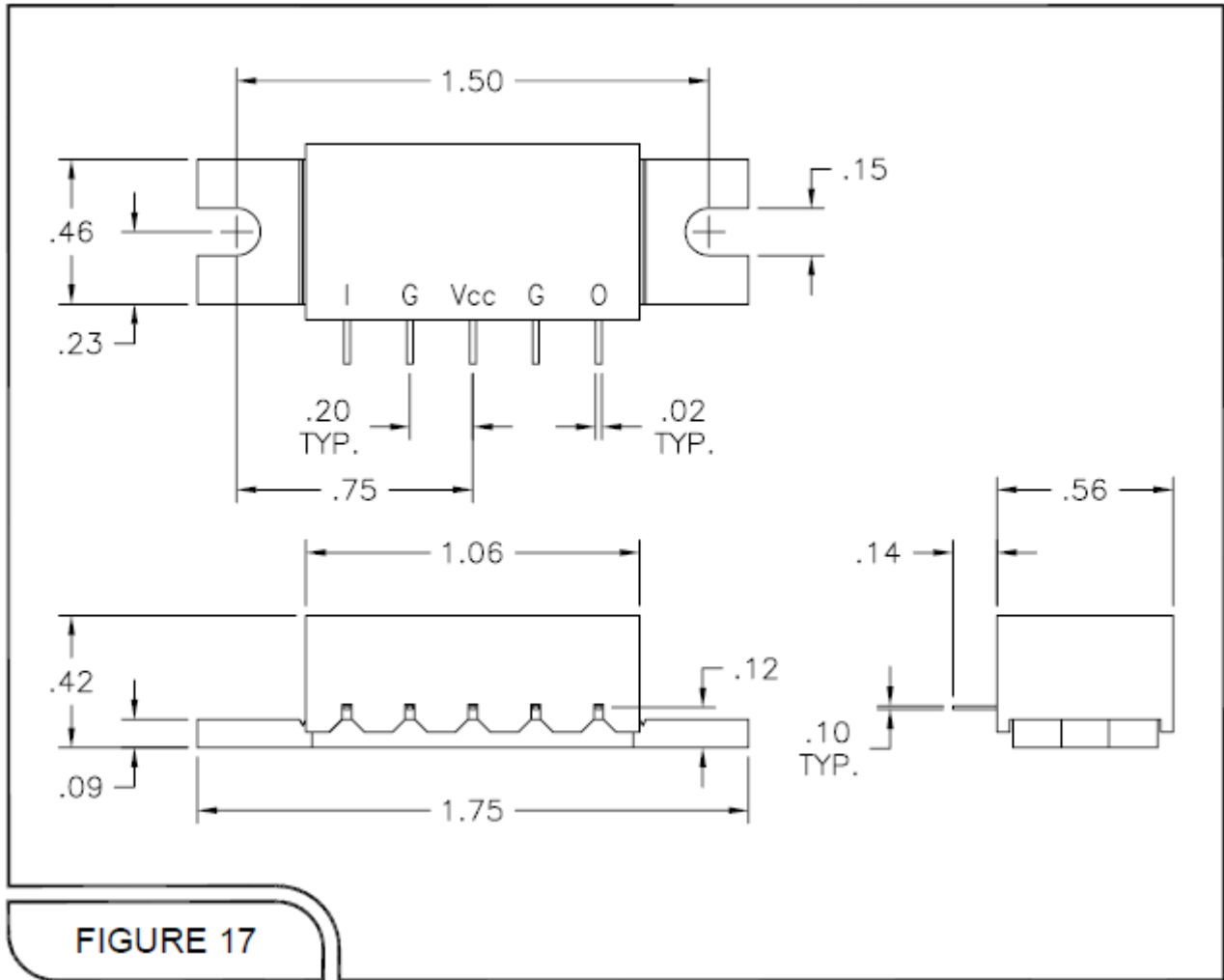
Specifications @ Tcase = 30°C (Referenced to 50 ohms)

Parameter	Typical Conditions	Min Value	Max Value	Units
Frequency Range		20	550	MHz.
Power Gain	F = 50MHz.	21.0	23.0	dB.
Cable equivalent slope	F = 40MHz. TO 550MHz.	0	1.0	dB.
Gain Flatness (peak to valley)	F = 40MHz. TO 550MHz.		0.8	dB.
VSWR In	1.9:1		2.2:1	dB.
VSWR In	1.9;1		2.2:1	dB.
IP <sub>3</sub> 2 tones @ +15dbm per tone	52	49		dBm.
IP <sub>2</sub> 2 tones @ +15dbm per tone	80	70		
P1dB	+35	33		dbm
Noise Figure (NF)	2.3 dB		4.0	dB.
Total Current (I <sub>TOT</sub> )	+24V/400mA		440	mA.

Typical Performance Curves @ 25°C



**OUTLINE DRAWING**



**FIGURE 17**

**Pin Configuration**

PIN#	Description
I	Input
G	Ground
Vcc	+24V.
O	Output