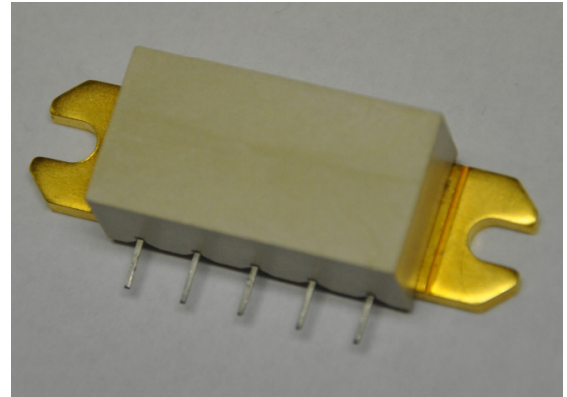


**Features: (typical values)**

- Ultra High Linearity
- Low Noise Figure
- Rugged Construction
- Operation over wide voltage range
- Usable for 50 ohm operation
- Unconditional Stability

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



**Maximum Ratings**

Storage temperature ..... -40°C to +100°C  
 DC Operating Voltage ..... +28.0 volts  
 RF Input Voltage ..... 40 dBmV max.  
 Operating Base Temp. .... +100°C

Specifications @ Tcase = 30°C (Referenced to 75 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.
Input/Output Return Loss	f = 40 To 160 MHz.	18		dB.
Input/Output Return Loss	f = 160To 550 MHz.	16		dB.
Composite Triple Beat (CTB)	79 channels flat, Vo=60dBmV. Measured @ Channel 78		-70	dBc
Cross Modulation (XMOD)	79channels flat, Vo=60dBmV. Measured @ Channel 2		-62	dBc
Composite 2 <sup>nd</sup> Order (CSO)	79 channels flat, Vo=60dBmV. Measured @ Channel 78		-70	dBc
IP <sub>3</sub> /IP <sub>2</sub> 2 tones @ +15dbm per tone	52/80	49/75		dBm.
P1dB	+35	33		dbm
Noise Figure (NF)	2.3 dB		4.0	dB.
Total Current (I <sub>TOT</sub> )	+24V/400mA		440	mA.

**OUTLINE DRAWING**

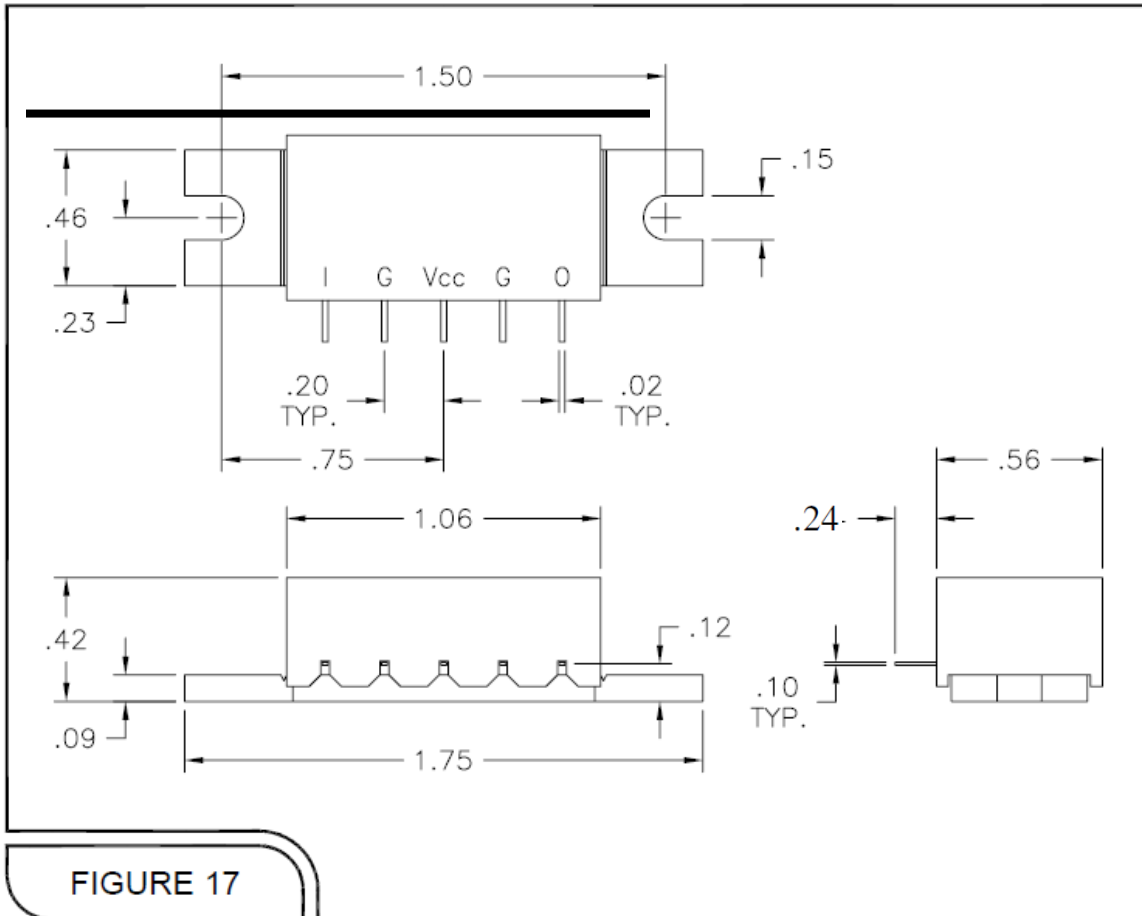


FIGURE 17

**Pin Configuration**

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