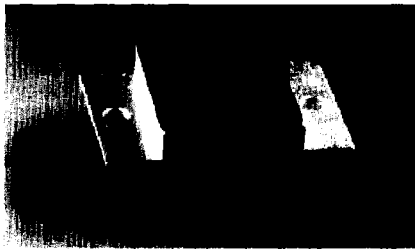


**PA942**

**10-100 MHz.  
Cascadable Amplifier**



See Short Form Chart and Mechanical Section for available outline drawings.

**Features: (typical values)**

- High Output Power ..... 27.0 dBm.
- High Reverse Isolation ..... 60.0 db.
- Medium Gain ..... 26.0 dB.
- High Reliability
- Hermetic Package

**Specifications (Referenced to 50 ohms)**

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		10	100	MHz.
Gain	24.8	24.5		dB.
Gain Flatness	±0.3		±0.7	dB.
Gain Var. over temp.	0.7			ΔdB.
Pout @ 1dB. comp.	+27.0	+25.0		dBm.
Noise Figure	3.8		4.5	dB.
Reverse Isolation	60.0			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone) *	39/49	37/47		dBm.
HIP <sub>2</sub> (2nd harm.)	55	53		dBm.
VSWR In/Out	1.5:1		2.0:1	
Supply Req'd	+24/230		+24/260	v/mA.

Min. and max. values are from -55°C to +85°C  
 \*IP<sub>3</sub> and IP<sub>2</sub> are in band output intercept points

**Maximum Ratings**

- Storage temperature ..... -62°C to +125°C
- DC voltage..... +25 volts
- RF input power ..... +13.0 dBm.
- Case Temperature ..... +95°C

**Typical Performance Curves**

■ -55°C    ◆ +25°C    ▲ +85°C

