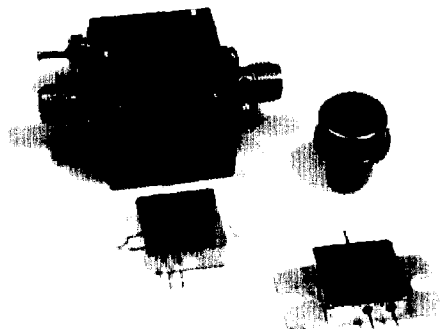


# PA971 Series 1600-2000 MHz. Cascadable Amplifier



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

## Features: (typical values)

- High Output Power ..... 22.8 dBm.
- Low Noise Figure ..... 3.5 dB.
- +12 Volt Operation
- High Reliability
- Hermetic Package (*Surface Mount available*)

## Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		1600	2000	MHz.
Gain	10	9.0		dB.
Gain Flatness	±0.3		±1.0	dB.
Gain Var. over temp.	1.3			ΔdB.
Pout @ 1dB. comp.	+22.8	+20		dBm.
Noise Figure	3.5		5.0	dB.
Reverse Isolation	12			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone) *	33/38	30/35		dBm.
HIP <sub>2</sub> (2nd harm.)	42	38		dBm.
VSWR In/Out	1.8:1		2.0:1	
Supply Req'd	+12/70		+12/80	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..... +14 volts  
 RF input power ..... +16.0 dBm.  
 Case Temperature ..... +95°C

## Typical Performance Curves

■ -55°C    ◆ +25°C    ▲ +85°C

