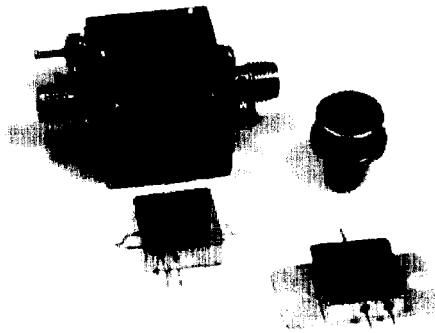


# PA978 Series 5-1000 MHz. Cascadable Amplifier



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

## Features: (typical values)

- Wide Bandwidth ..... 5-1000 MHz.
- High Gain ..... 25.0 dB.
- High Reverse Isolation ..... 35.0 dB.
- High Reliability
- Hermetic Package (*Surface Mount available*)

## Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		5	1000	MHz.
Gain	25	24		dB.
Gain Flatness	±0.5		±1.0	dB.
Gain Var. over temp.	0.8			ΔdB.
Pout @ 1dB. comp.	+10	+9		dBm.
Noise Figure	4.0		4.5	dB.
Reverse Isolation	35			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone) *	20/30	18/28		dBm.
HIP <sub>2</sub> (2nd harm.)	35	33		dBm.
VSWR In/Out	1.7:1		2.0:1	
Supply Req'd	+15/60		+15/70	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 ..... +17 volts  
 RF input power ..... +13.0 dBm.  
 Case Temperature ..... +125°C

## Typical Performance Curves

■ -55°C    ◆ +25°C    ▲ +85°C

