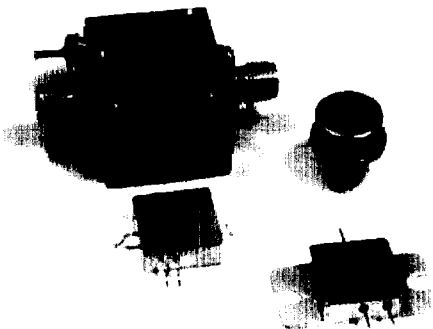


# PA965 Series 5-500 MHz. Cascadable Amplifier



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

## Features: (typical values)

- High Output Power ..... 20.0 dBm.
- Medium Gain ..... 17.0 dB.
- Medium Noise Figure ..... 4.0 dB.
- High Reliability
- Hermetic Package (*Surface Mount available*)

## Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		5	500	MHz.
Gain	17	16		dB.
Gain Flatness	±0.3		±0.7	dB.
Gain Var. over temp.	0.4			ΔdB.
Pout @ 1dB. comp.	+20	+19		dBm.
Noise Figure	4.0		4.5	dB.
Reverse Isolation	20			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone) *	30/40	29/39		dBm.
HIP <sub>2</sub> (2nd harm.)	36	35		dBm.
VSWR In/Out	1.6:1		2.0:1	
Supply Req'd	+15/55		+15/64	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 ..... +100°C

## Typical Performance Curves

■ -55°C    ◆ +25°C    ▲ +85°C

