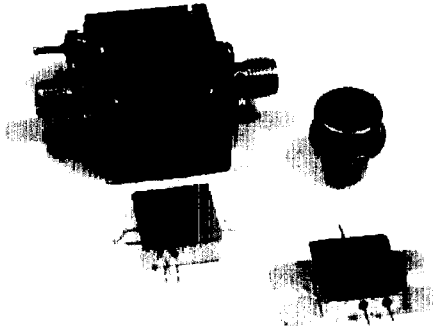


# PA963 Series 10-300 MHz. Cascadable Amplifier



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

## Features: (typical values)

- High Reverse Isolation ..... 25.0 dB.
- High Output Power ..... +22.0 dBm.
- High Third Order IP3 ..... +32.0 dBm.
- High Reliability
- Hermetic Package (*Surface Mount available*)

## Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		10	300	MHz.
Gain	12.5	11.0		dB.
Gain Flatness	±0.4		±1.0	dB.
Gain Var. over temp.	0.5			ΔdB.
Pout @ 1dB. comp.	+22	+20		dBm.
Noise Figure	3.4		4.0	dB.
Reverse Isolation	25			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone) *	32/42	30/40		dBm.
HIP <sub>2</sub> (2nd harm.)	47	45		dBm.
VSWR In/Out	1.4:1		2.0:1	
Supply Req'd	+15/88		+15/99	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 ..... +90°C

## Typical Performance Curves

■ -55°C    ◆ +25°C    ▲ +85°C

