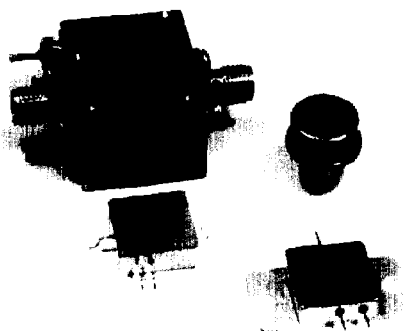


# PA973 Series 10-3000 MHz. Cascadable Amplifier



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

## Features: (typical values)

- Wide Bandwidth ..... 10-3000 MHz.
- Medium Output Power..... +15.3 dBm.
- High Reliability
- Hermetic Package (*Surface Mount available*)

## Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		10	3000	MHz.
Gain	9.5	8.5		dB.
Gain Flatness	±0.5		±1.0	dB.
Gain Var. over temp.	0.8			ΔdB.
Pout @ 1dB. comp.	+15.3	+9.8		dBm.
Noise Figure **	3.5		5.5	dB.
Reverse Isolation	17.5			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone) *	24/29	21/27		dBm.
HIP <sub>2</sub> (2nd harm.)	36	32		dBm.
VSWR In/Out	1.8:1		2.0:1	
Supply Req'd	+15/45		+15/48	v/mA.

Min. and max. values are from -55 to +85°C

\*IP<sub>3</sub> and IP<sub>2</sub> are in band output intercept points

\*\*For Frequencies: <500 MHz, NF increases from 5.5 dB. max. to 10.0 dB. max. at 10 MHz.

## 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

