

# PA1017 Series 800-1000 MHz. Cascadable Amplifier



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

## Features: (typical values)

- Low Noise Figure ..... 1.4 dB.
- Low Supply Voltage ..... +3.4 V.
- High Reliability
- Hermetic Package (*Surface Mount available*)

## Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		800	1000	MHz.
Gain	20.0	18.0		dB.
Gain Flatness	±0.2		±1.0	dB.
Gain Var. over temp.	0.4			ΔdB.
Pout @ 1dB. comp.	+2.0	+0.0		dBm.
Noise Figure	1.4		1.8	dB.
Reverse Isolation	30.0			dB.
IP <sub>3</sub> /IP <sub>2</sub> (two-tone)*	12/22	9/19		dBm.
HIP <sub>2</sub> (2nd harm.)	27.0	24.0		dBm.
VSWR In/Out	1.5:1		2.0:1	
Supply Req'd	+3.4/41		+3.4/50.	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 ..... +5.0 volts  
RF input power ..... +13.0 dBm.  
Case Temperature ..... +125°C

## Typical Performance Curves

■ -55°C    ◆ -25°C    ▲ +85°C

