

PA946 Series 5-1200 MHz. Cascadable Amplifier

PHOENIX
MICROWAVE Corp.



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

Features: (typical values)

- Broad Band 5-1200 MHz.
- High Gain 22.0 dB.
- Medium Noise Figure 5.0 dB.
- High Reliability
- Hermetic Package (*Surface Mount available*)

Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		5	1200	MHz.
Gain	22.0	21.0		dB.
Gain Flatness	±0.25		±1.0	dB.
Gain Var. over temp.	0.8			ΔdB.
Pout @ 1dB. comp.	+17.0	+15.0		dBm.
Noise Figure	5.0		7.0	dB.
Reverse Isolation	30.0			dB.
IP ₃ /IP ₂ (two-tone)*	27/37	25/35		dBm.
HIP ₂ (2nd harm.)	42.0	40.0		dBm.
VSWR In/Out	1.5:1		2.0:1	
Supply Req'd	+15/75		+15/85	v/mA.

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

*IP₃ and IP₂ 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

