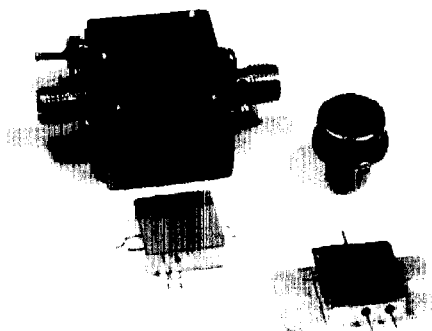


PA990 Series 20-2000 MHz. Cascadable Amplifier

PHOENIX
MICROWAVE Corp.



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

Features: (typical values)

- High Output Power +19.4 dBm.
- Medium Gain 14.2 dB.
- High Reliability
- Hermetic Package (*Surface Mount available*)

Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		20	2000	MHz.
Gain	14.2	13.8		dB.
Gain Flatness	±0.4		±1.0	dB.
Gain Var. over temp.	1.0			ΔdB.
Pout @ 1dB. comp.	+19.4	+18.5		dBm.
Noise Figure	6.7		7.0	dB.
Reverse Isolation	28			dB.
IP ₃ /IP ₂ (two-tone) *	30/40	28/38		dBm.
HIP ₂ (2nd harm.)	45	43		dBm.
VSWR In/Out	1.7:1		2.0:1	
Supply Req'd	+15/160		+15/170	v/mA.

Min. and max. values are from -55°C to +71°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 +95°C

Typical Performance Curves

—■— -55°C —◆— +25°C —▲— +71°C

