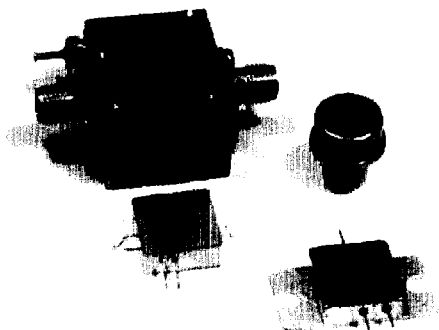


PA290 Series 10-1500 MHz. Cascadable Amplifier

PHOENIX
MICROWAVE Corp.



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

Features: (typical values)

- Wide Bandwidth 10-1500MHz.
- High Output Power +22.0 dBm.
- High Reliability
- Hermetic Package (*Surface Mount available*)

Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		10	1500	MHz.
Gain	9.2	5.0		dB.
Gain Flatness	±0.3		±1.0	dB.
Gain Var. over temp.	0.6			ΔdB.
Pout @ 1dB. comp.	+22	+19.5		dBm.
Noise Figure	7.8		9.5	dB.
Reverse Isolation	10			dB.
IP ₃ /IP ₂ (two-tone) *	33/43	30/40		dBm.
HIP ₂ (2nd harm.)	50	45		dBm.
VSWR In/Out	1.6:1		2.0:1	
Supply Req'd	+15/98		+15/109	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 +18 volts
 RF input power +19.0 dBm.
 Case Temperature +95°C

Typical Performance Curves

—■— -55°C —◆— +25°C —▲— +85°C

