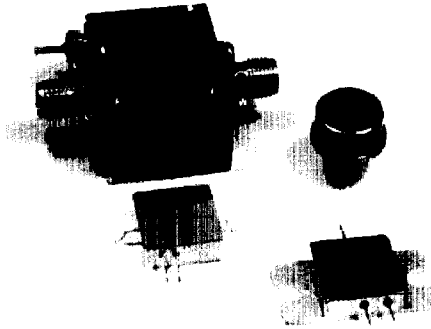


PA899 Series 10-500 MHz. Cascadable Amplifier



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

Features: (typical values)

- High Gain 28.9 dB.
- High Output Power +23.2 dBm.
- Medium Noise Figure 3.8 dB.
- High Reliability
- Hermetic Package (*Surface Mount available*)

Specifications (Referenced to 50 ohms)

Parameter	Typical Value	Min. Value	Max. Value	Units
Frequency		10	500	MHz.
Gain	28.9	28.0		dB.
Gain Flatness	±0.1		±1.0	dB.
Gain Var. over temp.	0.6			ΔdB.
Pout @ 1dB. comp.	+23.2	+20.0		dBm.
Noise Figure	3.8		5.0	dB.
Reverse Isolation	35.0			dB.
IP ₃ /IP ₂ (two-tone)*	34/45	30/40		dBm.
HIP ₂ (2nd harm.)	50.0	45.0		dBm.
VSWR In/Out	1.8:1		2.0:1	
Supply Req'd	+15/120		+15/130	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 +95°C

Typical Performance Curves

—■— -55°C —◆— +25°C —▲— +85°C

