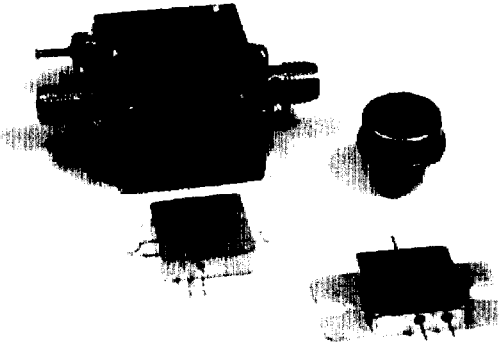


PA219 Series 5-500 MHz. Cascadable Amplifier



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

Features: (typical values)

- Ultra Low Noise Figure 1.7 dB.
- High Gain 33.0 dB.
- High Reliability
- Hermetic Package (*Surface Mount Available*)

Specifications (Referenced to 50 ohms)

| Parameter | Typical Value | Min. Value | Max. Value | Units |
|--|---------------|------------|------------|-------|
| Frequency | | 5 | 500 | MHz. |
| Gain | 33 | 29 | | dB. |
| Gain Flatness | ± 0.3 | | ± 1.0 | dB. |
| Gain Var. over temp. | 0.6 | | | ΔdB. |
| Pout @ 1dB. comp. | + 8.7 | + 4.5 | | dBm. |
| Noise Figure | 1.7 | | 2.0 | dB. |
| Reverse Isolation | 40 | | | dB. |
| IP ₃ /IP ₂ (two-tone)* | 18/28 | 16/26 | | dBm. |
| HIP ₂ (2nd harm.) | 33 | 31 | | dBm. |
| VSWR In/Out | 1.7:1 | | 2.0:1 | |
| Supply Req'd | +15/43 | | +15/50 | v/mA. |

Min. and max. values are from -55 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 +7.0 dBm.
 Case Temperature +125°C

Typical Performance Curves

■ -55°C ◆ +25°C ▲ +85°C

