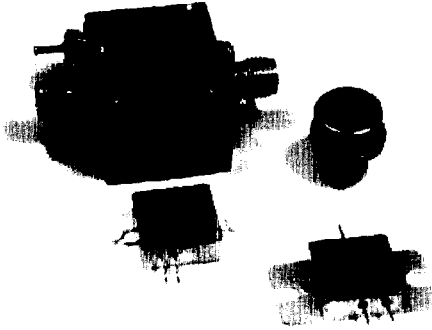


PA005 Series 5-500 MHz. Cascadable Amplifier



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

Features: (typical values)

- Medium Output Power +10.0 dBm.
- Medium Noise Figure 3.0 dBm.
- Wide Temperature Range 54°C to 100°C
- High Reliability
- Hermetic Package (*Surface Mount available*)

Specifications (Referenced to 50 ohms)

| Parameter | Typical Value | Min. Value | Max. Value | Units |
|--|---------------|------------|------------|-------|
| Frequency | | 5.0 | 500 | MHz. |
| Gain | 14.8 | 13.5 | | dB. |
| Gain Flatness | ±0.4 | | ±1.0 | dB. |
| Gain Var. over temp. | ±0.8 | | | ΔdB. |
| Pout @ 1dB. comp. | +10.0 | +7.0 | | dBm. |
| Noise Figure | 3.0 | | 6.0 | dB. |
| Reverse Isolation | 18 | | | dB. |
| IP ₃ /IP ₂ (two-tone)* | 22/32 | 17/27 | | dBm. |
| HIP ₂ (2nd harm.) | 35 | 32 | | dBm. |
| VSWR In/Out | 1.8:1 | | 2.0:1 | |
| Supply Req'd | +15/27 | | +15/30 | 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 +13.0 dBm.
 Case Temperature +125°C

Typical Performance Curves

■ -55°C ◆ +25°C ▲ +85°C

