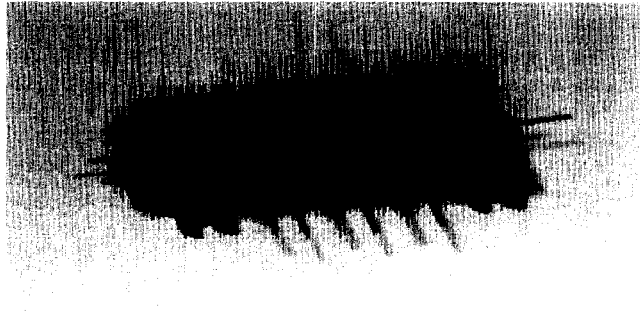


PA950

1400-2100 MHz.  
Amplifier



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

Features: (typical values)

- High Gain ..... 29.0 dB.
- Low Noise Figure ..... 2.0 dB.
- Medium Bandwidth ..... 1400-2100 MHz.
- High Reliability
- Hermetic Package (*Surface Mount available*)

Specifications (Referenced to 50 ohms)

| Parameter                                     | Typical Value | Min. Value | Max. Value | Units |
|---|---------------|------------|------------|-------|
| Frequency                                     |               | 1400       | 2100       | MHz.  |
| Gain  | 29.0          | 28.0       |            | dB.   |
| Gain Flatness                                 | ±0.3          |            | ±0.7       | dB.   |
| Gain Var. over temp.                          | 1.5           |            |            | ΔdB.  |
| Pout @ 1dB. comp.                             | +12.0         | +10.0      |            | dBm.  |
| Noise Figure                                  | 2.0           |            | 2.8        | dB.   |
| Reverse Isolation                             | 50.0          |            |            | dB.   |
| IP <sub>3</sub> /IP <sub>2</sub> (two-tone) * | 22/27         | 20/25      |            | dBm.  |
| VSWR In/Out                                   | 1.7:1         |            | 2.0:1      |       |
| Supply Req'd. (Pos.)                          | +5/120        |            | +5/134     | v/mA. |
| Supply Req'd. (Neg.)                          | -5/10         |            | -5/12      | v/mA. |

Min. and max. values are from -55°C to +85°C  
\*IP<sub>3</sub> and IP<sub>2</sub> are in band output intercept points

Maximum Ratings

Storage temperature ..... -62°C to +125°C  
DC voltage ..... +/-8 volts  
RF input power ..... +13.0 dBm.  
Case Temperature ..... +125°C

Typical Performance Curves

■ -55°C    ◆ +25°C    ▲ +85°C

