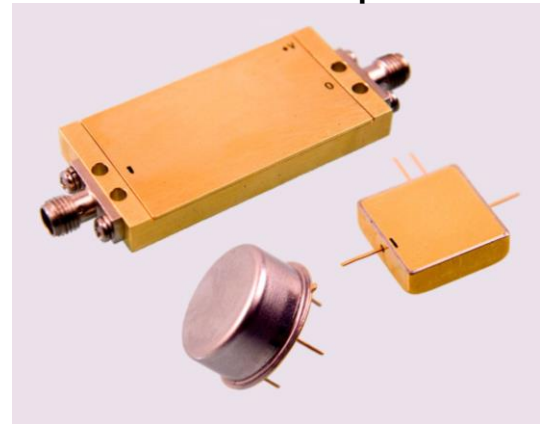


ASC659C

Features: (typical values)

- Wide Band 50-2500 MHz.
- Noise Figure 3.0 dB.
- Med Gain 17 dB.
- No external components required

50-2500 MHz Cascadable Amplifier



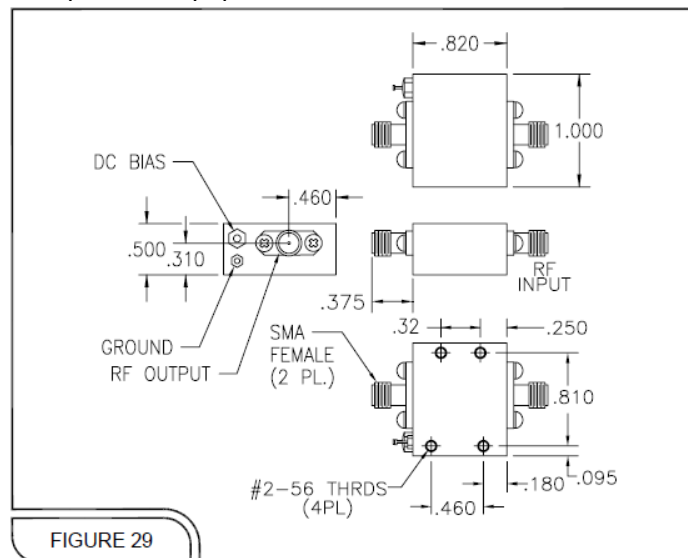
Maximum Ratings

Storage Temperature -62°C to +125°C
 DC Voltage +17 volts
 RF Input Power +7.0 dBm.
 Case Temperature +100°C

Specifications (Referenced to 50 ohms)

| Parameter | Typical Conditions | Min Value | Max Value | Units |
|--|--------------------|-----------|-----------|-------|
| Frequency | | 50 | 2500 | MHz. |
| Gain | 17 | 15 | | dB. |
| Gain Flatness | ±0.5 | | ±1.0 | dB. |
| Gain Var. over temp | 0.6 | | | ΔdB. |
| Pout @ 1dB Comp | +24 | +22 | | dBm. |
| Noise Figure(100-2500 MHz) | 3.0 | | 4.0 | dB. |
| Reverse Isolation | 27 | | | dB. |
| IP ₃ /IP ₂ (two-tone)* | 34/43 | | | dBm. |
| HIP2 (2 nd harm.) | 45 | | | dBm. |
| VSWR In/Out | 1.7:1 | | 2.0:1 | |
| Supply Required | +15/180 | | +15/195 | v/mA. |

Min. and max. values are from -55°C to +85°C
 *IP₃ and IP₂ are in band output intercept points



FUNCTIONAL BLOCK DIAGRAM

