

Wide Band RF Amplifier

- * Operating Frequency :0.5-3 GHz
- * Saturated Power : 10W Psat Typical
- * Gain : 11 dB
- * Operation Up to 28 Volts



Description: Ultra wideband operation, Fiber Drivers, Test Instrumentation, All Purpose Power Amp

ELECTRICAL SPECIFICATION @ VDD= +28 VDC, -5VDC; Temp. = 25 °C, 50Ω System

| Parameter | Symbol | Min | Typ | Max | Unit |
|------------------------|---------|-------|--------|------|-------|
| Operating Frequency | BW | 0.5 | | 3 | GHz |
| Gain | G | 9 | 11 | | dB |
| Gain Flatness | Δ G | | ±1.0 | ±2.0 | dB |
| Power Added Efficiency | PAE | | 30 | | % |
| Power Output | Psat | 39 | 40 | | dBm |
| Return Loss in/out | S11/S22 | 2.5:1 | 2.0:1 | | Ratio |
| Operating Voltage | Vdc | | +28,-5 | | Volt |
| Operating Current Idq | Idq | | 200 | | mA |

MECHANICAL SPECIFICATION

| Parameter | Description | Limits | Units |
|----------------------|-------------|--------|--------|
| Dimension | 2x1x0.5 | | inches |
| RF Connectors IN/OUT | SMA-F | | |
| DC Connector | Filtered DC | | |
| | | | |
| | | | |

PROTECTIONS

| | Max | |
|-----------------------------|---------------|-------|
| RF Input Power | 30 | dBm |
| Reverse Polarity Protection | | |
| Load VSWR | 5:01 | RATIO |
| Stability | Unconditional | |

ENVIROMENTAL CHARACTERISTICS

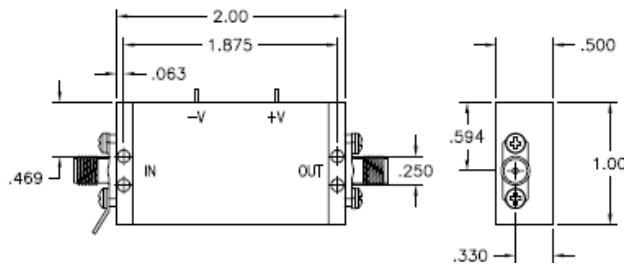
| Parameter | Symbol | Min. | Typ. | Max | Units |
|----------------------------|--------|------|------|-------|-------|
| Operating Case Temperature | Tc | 0 | | 75 | °C |
| Storage Temperature | Tstg | -55 | | 125°C | °C |
| | | | | | |

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