

Gain Control Module

- * Operating Frequency : 20 - 6000 MHz.
- * Saturated Power : +33 dBm, 35 typ
- * Noise Figure : 3.0 dB. typ
- * Gain : 16 dB.
- * Operation Up To 28 Volts¹
- * No external components required



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

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

| Parameter | Symbol | Min | Typ | Max | Unit |
|----------------------------------|---------|-----|---------|------|------|
| Operating Frequency | BW | 20 | | 6000 | MHz. |
| Gain | G | 14 | 16 | 19 | dB. |
| Gain Flatness | Δ G | | ±2.0 | ±2.5 | dB. |
| Power Added Efficiency | PAE | | 30 | | % |
| Power Output | Psat | 33 | 35 | | dBm. |
| Output 3rd Order Intercept Point | OIP3 | 30 | 32 | | dBm. |
| 2nd Harmonic @ +30dBm | HIP2 | -15 | -25 | | dBc. |
| Return Loss in/out | S11/S22 | 5 | 10 | | dB. |
| Operating Voltage ¹ | Vdc | | +28, -5 | | Volt |
| Operating Current | Idq | | 150 | 400 | mA. |

Note 1: Also Available In A Single +30V Supply

MECHANICAL SPECIFICATION

| Parameter | Description | Limits | Units |
|----------------------|-------------------------|--------|-------|
| Dimension | 2.0 x 1.0 x 0.5 | | |
| RF Connectors IN/OUT | SMA-F Field Replaceable | | |
| DC Connector | Filtered DC | | |

PROTECTIONS

| | Max | |
|-----------------------------|---------------|-------|
| RF Input Power | 26 | dBm. |
| Reverse Polarity Protection | | |
| Load VSWR | 5:01 | RATIO |
| Stability | Unconditional | |

ENVIRONMENTAL CHARACTERISTICS

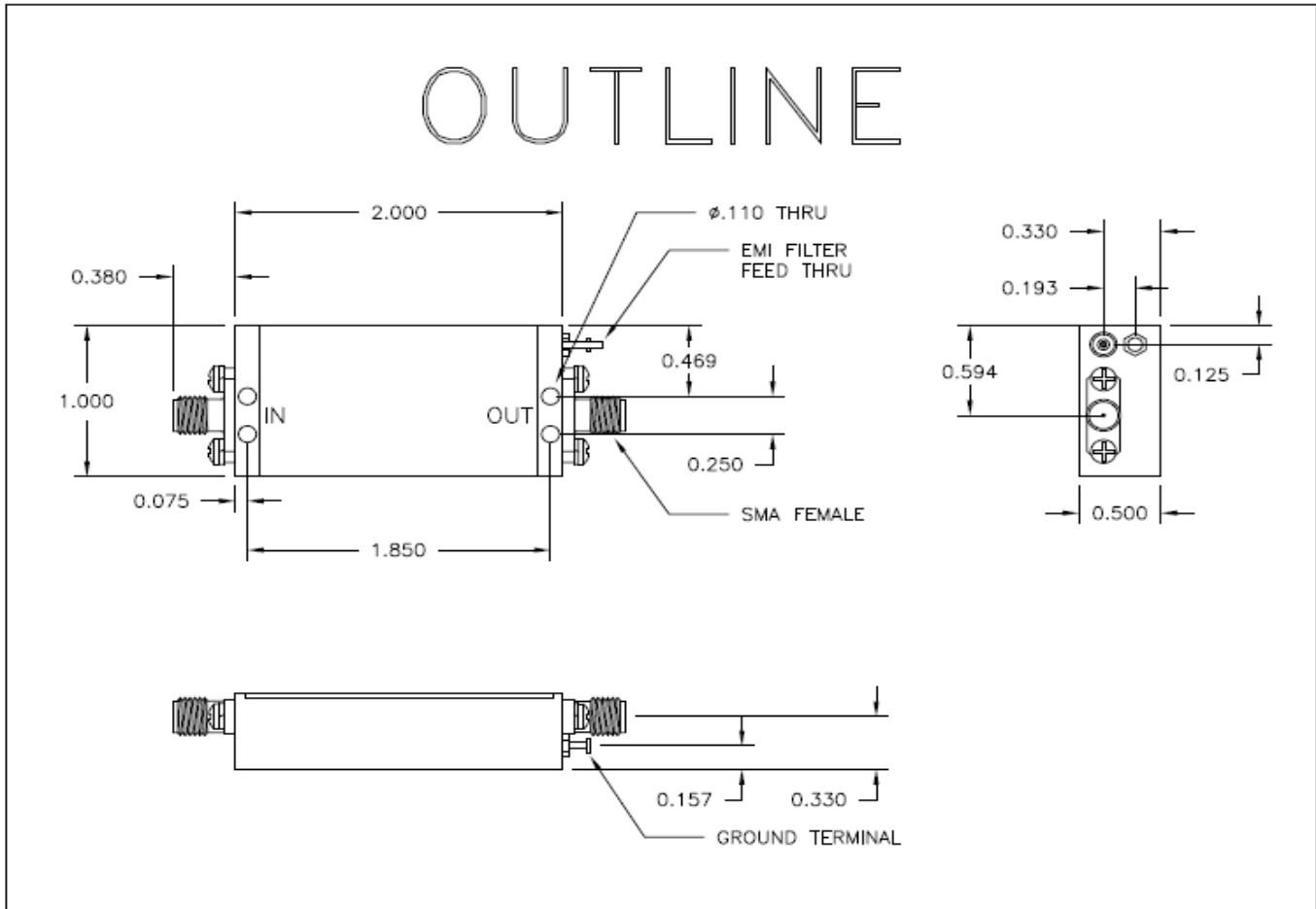
| Parameter | Symbol | Min. | Typ. | Max | Units |
|----------------------------|--------|------|------|-------|-------|
| Operating Case Temperature | Tc | 0 | | 75 | °C |
| Storage Temperature | Tstg | -55 | | 150°C | °C |

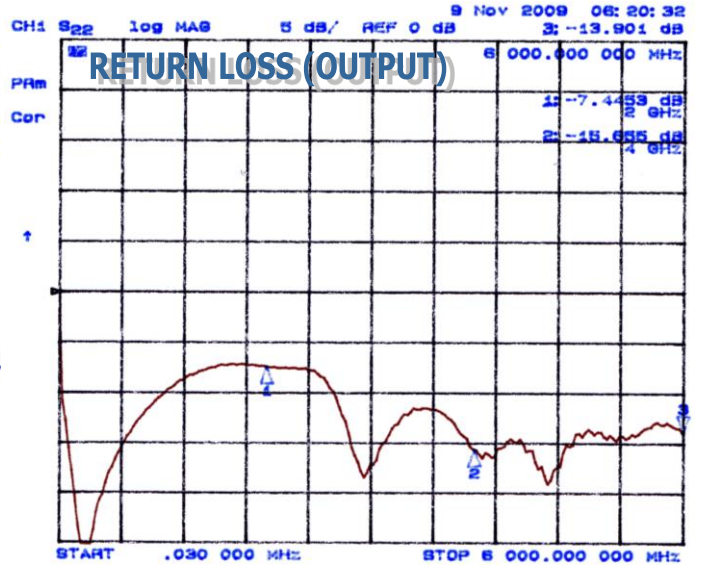
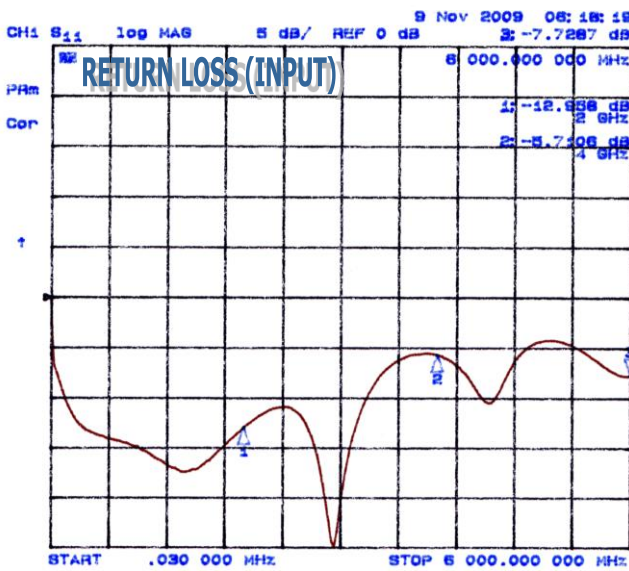
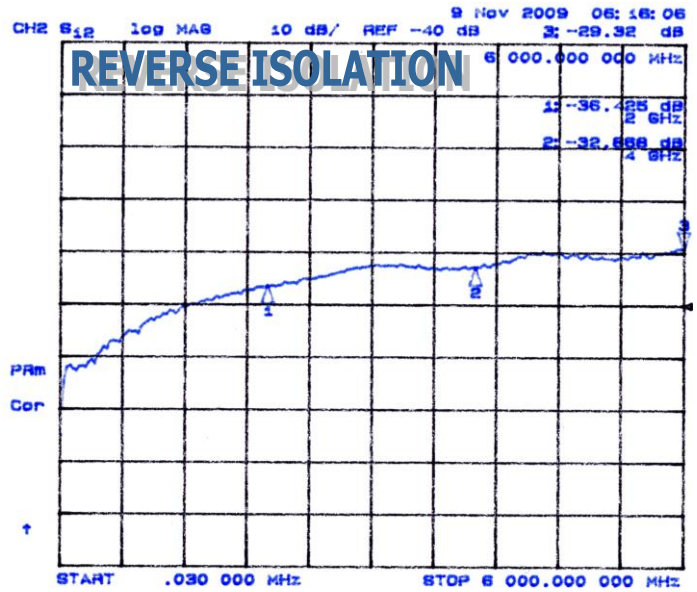
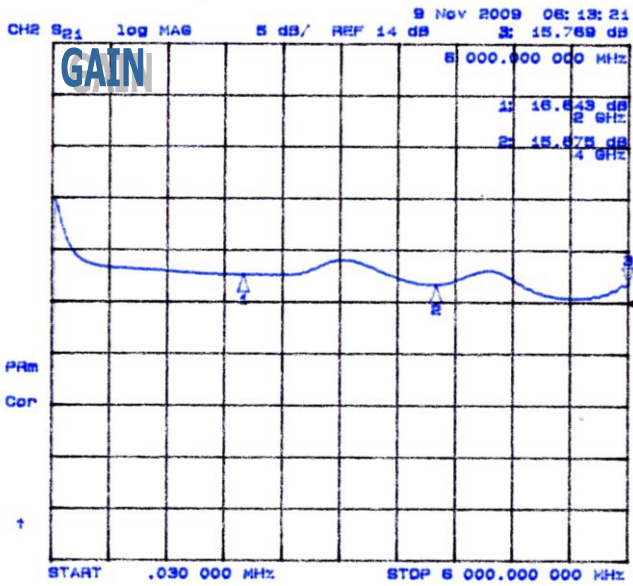
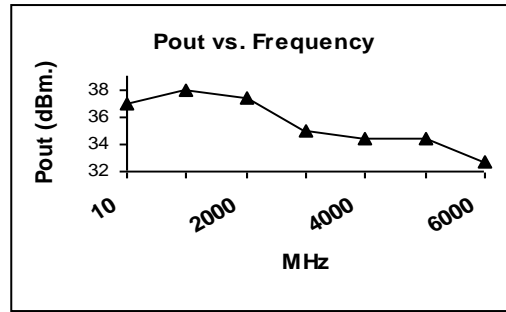
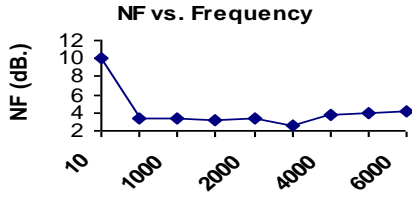
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Outline Drawing



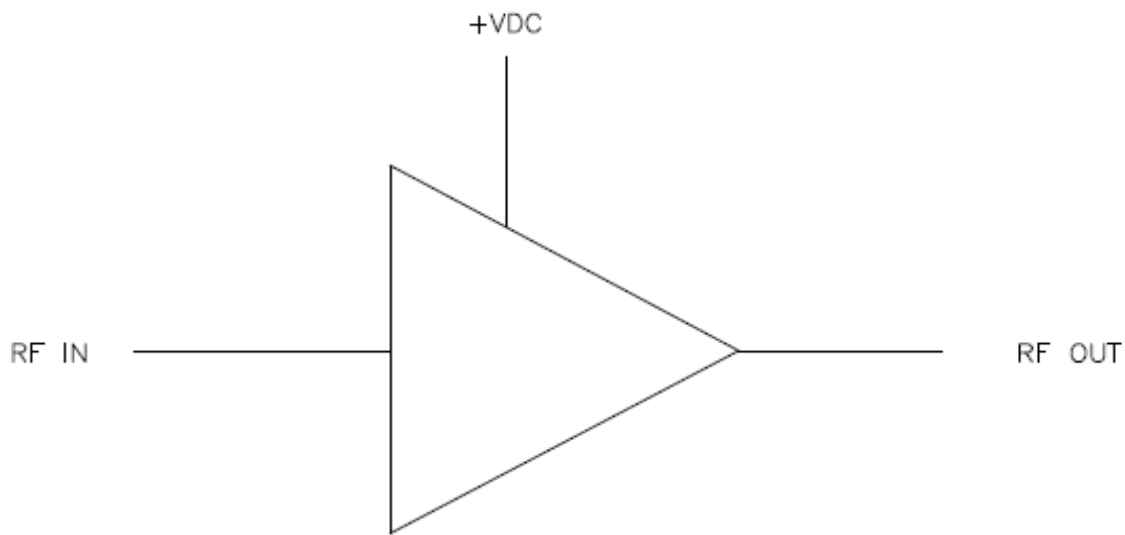


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FUNCTIONAL BLOCK DIAGRAM



NO EXTERNAL COMPONENT REQUIRED