

The **SM1516-50LD** is an 1500-1600 MHz LDMOS amplifier designed for various military and commercial applications.

Features

- Mis-Match Protected
- Single Power Supply
- Temperature Compensation

Options

- Forward/Reverse Power Detection
- Temperature Monitor
- Logic On/Off Control
- Heatsink

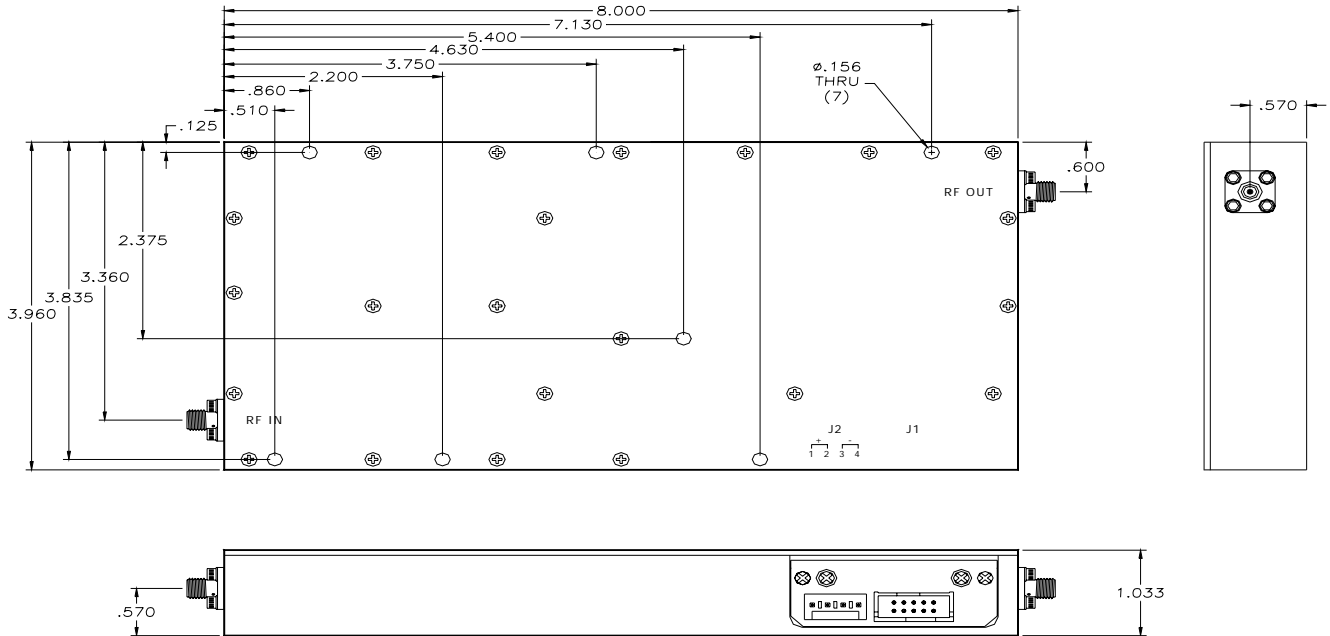
Configurations

- Module
- 19" Rack
- Bench-top Lab Unit



| Parameter | Specification |
|--|-----------------------------------|
| Frequency Range | 1500 - 1600 MHz |
| RF Power @ 1dB compression point | 50 dBm |
| Linear Gain | 54 dB \pm 1 dB |
| Gain Flatness over Full Band | \pm .75 dB |
| Input VSWR | -18 dB (min) |
| Output VSWR (Built-in Isolator) | -17 dB (min) |
| DC Input Voltage | + 28 Volts |
| DC Current Operating | 15 Amperes @ +50dBm (max.) |
| Mechanical Dimensions Without Heatsink | 8.0 x 4.0 x .8 inches |
| RF Connectors | SMA Female |
| Operating Temperature | -30° C to +85° C |
| Operating Humidity | 95% Non-condensing |
| Operating Altitude | Up to 10,000 feet above Sea Level |

DIMENSIONS IN INCHES



| DC Connector: 4 Pin Lock Header (J2) | | Function |
|--|--------------|--|
| Pins 1,2 | Purple | Supply Voltage (+28V) |
| Pins 3,4 | Black | GND (-) |
| Alarm/Control Connector: 10 Pin Box Header (J1) | | Function |
| Pin 1 | Orange/White | Alarm Summary |
| Pin 2 | Black | GND |
| Pin 3 | Gray | Forward Power Detection (5V @ P1dB) |
| Pin 4 | Yellow/White | Vendor ID |
| Pin 5 | Green | Logic On/Off (0V = Off, 5V = On) |
| Pin 6 | Blue | Temperature Monitor (5V @ 80 degC) |
| Pin 7 | White | Reflected Power Detection (5V @ P1dB output into an open load) |
| Pin 8 | Brown/White | N/C |
| Pin 9 | Brown | N/C |
| Pin 10 | Black | GND |

1007 Whitehead Road Ext., Trenton, NJ 08638

Tel: (609) 538-8586 ♦ Fax: (609) 538-8587

Email: sales@stealthmicrowave.com ♦ Web site: www.stealthmicrowave.com