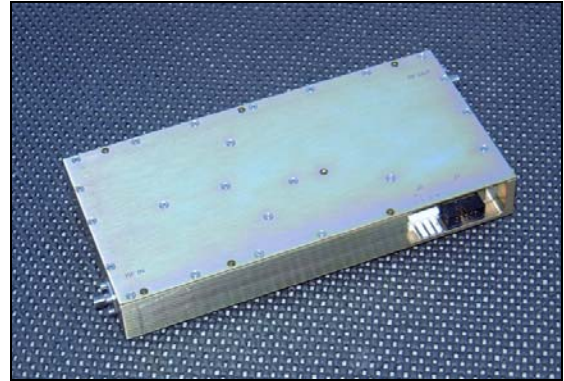


The **SM415-50LD** is a 1.4 to 1.5 GHz LDMOS amplifier designed for multipurpose military and commercial markets. Its compact size and high linearity make it ideally suited for systems using CDMA or single carrier GSM.



Features

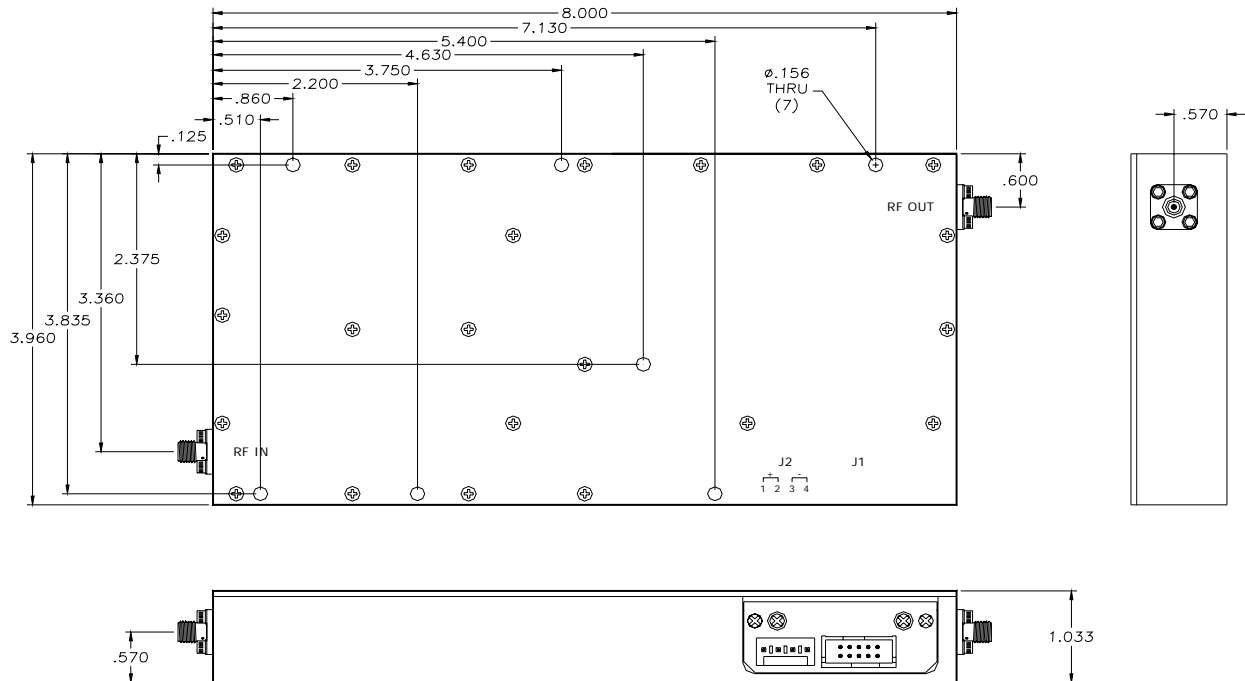
- Single Power Supply
- Temperature Compensation

Options

- Forward/Reflected Power Detection
- Temperature Detector
- Logic On/Off Control
- Heatsink

Parameter	Specification
Frequency Range	1.4 – 1.5 GHz
Output Power (P1dB)	50 dBm (min.)
Linear Gain	45 dB \pm 1 dB (Can be changed up to 60 dB)
Gain Flatness over Full Band	\pm .75 dB
Input/Output Return Loss	-18 dB / -17dB
DC Input Voltage	+ 26 Volts
DC Current Operating	55 Amps @ + 50 dBm
Mechanical Dimensions Without Heatsink	8.0 x 4.0 x 1.0
RF Connectors	Female SMA
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:		Function
4 Pin Lock Header (J2)		
Pins 1,2	Purple	Supply Voltage (+28V)
Pins 3,4	Black	GND (-)
Alarm/Control Connector:		Function
10 Pin Box Header (J1)		
Pin 1	Orange/White	Alarm Summary
Pin 2	Black	GND
Pin 3	Gray	Forward Power Detection
Pin 4	Yellow/White	Vendor ID
Pin 5	Green	Logic On/Off (0V = On, 2V = Off)
Pin 6	Blue	Temperature Monitor
Pin 7	White	Reflected Power Detection
Pin 8	Brown/White	N/C
Pin 9	Brown	N/C
Pin 10	Black	GND

Specifications subject to change without notice.