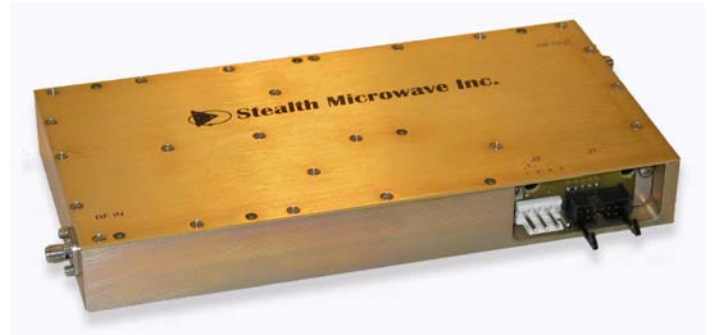


The **SM2122-51LD** is a 2.11 to 2.17 GHz LDMOS amplifier designed for the Universal Mobile Telecommunication Systems (UMTS) market. Its compact size and high linearity make it ideally suited for systems using 3G Point-to-Point or single carrier GSM. The amplifier meets the single carrier ETSI TS 125 104 V3.4 mask requirements with an output power +38 dBm.



Features

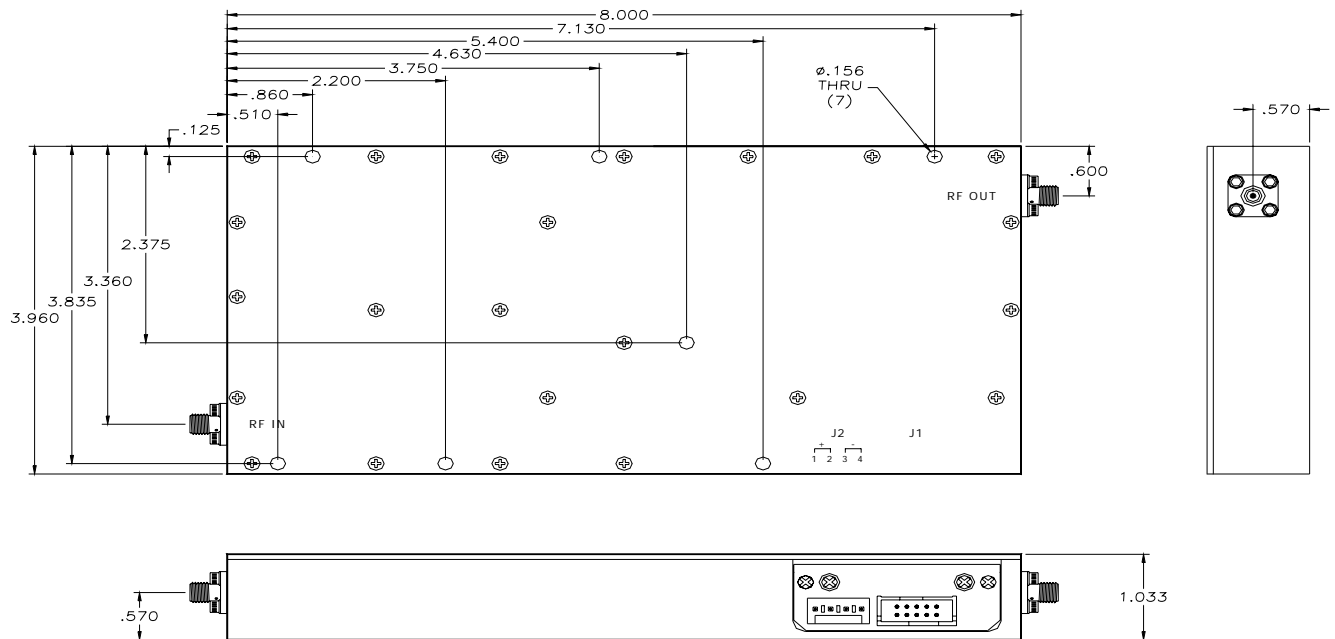
- Single Power Supply
- Temperature Compensation

Options

- Forward/Reverse Power Detection
- Temperature Sensing Alarm
- Current Alarm
- Logic On/Off Control
- Integral Heatsink

Parameter	Specification
Frequency Range	2.11 – 2.17 GHz
In-Band Spurious Emissions at + 38.0dBm with one 3GPP Carrier	See ETSI TS 125 104 V3.4
Out of Band Spurious Emissions a + 38.0 dBm with one 3GPP Carrier, without a duplexer.	See ETSI TS 125 104 V3.4
Linear Gain	45 dB \pm 1 dB
Gain Flatness over Full Band	\pm .5 dB
Input Return Loss	-18 dB
Output Return Loss (Built-in Isolator)	-18 dB
DC Input Voltage	+ 25 Volts
DC Current Quiescent	2.8 Amps
DC Current Operating	3.9 Amps @ + 38.0 dBm
Mechanical Dimensions (Without Heatsink)	8.0 x 4.0 x 1.0 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:		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