Model SMTR4852-11G36-RSS

4.8-5.2 GHz
6W Bi-Directional Power Amplifier

Stealth Microwave's **SMTR4852-11G36-RSS** is a solid state amplifier for use in 802.11g and similar WLAN systems. This SSPA utilizes state of the art LDMOS FET transistors which allow for more efficient operation while still meeting EVM limits. Designed primarily for military use, the design can be applied for various ISM band applications as well.

Features

- Tx/Rx Switching via RS-422
- Integral receive filter
- LNA-Bypass mode
- Built in test monitor output
- Rugged IP66 weatherproof housing
- Various connector options available (RF)

Transmit Path				
Parameter	**Specification**			
	Min	**Typ**	**Max**	**Unit**
Frequency Range	4800	-	5200	MHz
802.11g Power Out	36			dBm
EVM at 36dBm (802.11g 54Mbps)	-30			dB
Gain		34		dB
Gain Flatness		±.75		dB
Input Return Loss	-12	-14		dB
DC Input Voltage	10	12	12	V
Current Draw		9		A
Receive Path				
Gain		16		dB
P1dB	10			dBm
Noise Figure		3.6	4	dB
Input Return Loss		-14		dB
Current Draw			200	mA

Mechanical Dimensions	4.39 x 5.38 x 1.31 inches
RF Connectors	N Female
Weight	2 lb. 4 oz.
Operating Temperature (Baseplate)	-20ºC to +65ºC

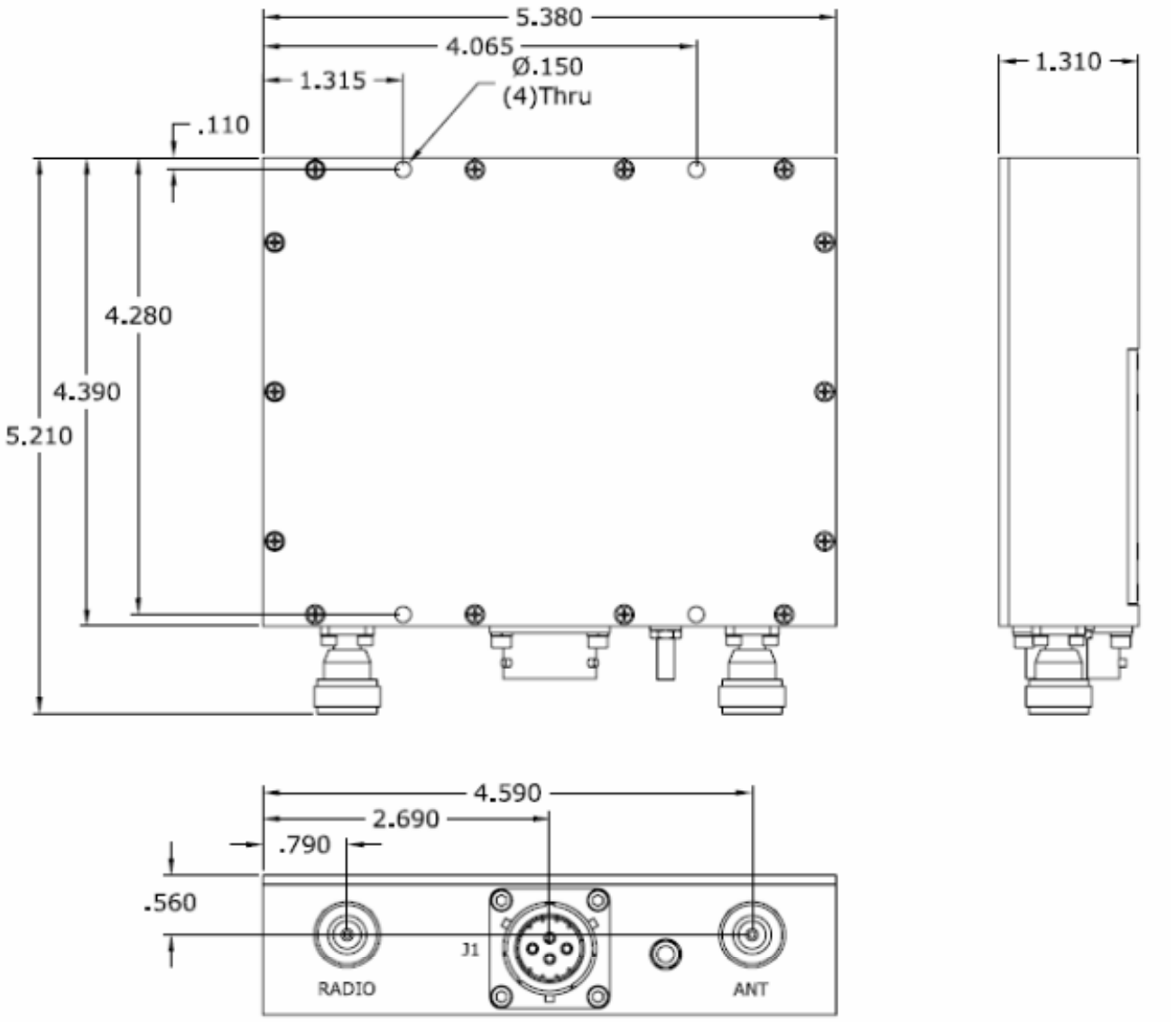
1007 Whitehead Road Ext., Trenton, NJ 08638
Tel: (609) 538-8586 ♦ Fax: (609) 538-8587
Email: sales@stealthmicrowave.com ♦ Web site: www.stealthmicrowave.com

Stealth Microwave
INCORPORATED

Model SMTR4852-11G36-RSS

4.8-5.2 GHz
6W Bi-Directional Power Amplifier

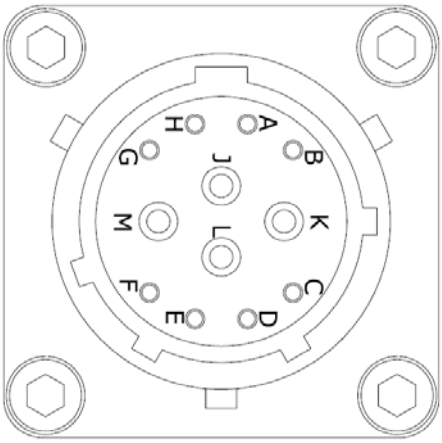
DIMENSIONS IN INCHES



Pin	Description	Values
RADIO	Input Connector (N Female)	+ 2.0 dBm (typ.)
ANT	Antenna Connector (N Female)	+36 dBm burst power (802.11g 54Mbps)
J1	Power / Control Connector	See next page

1007 Whitehead Road Ext., Trenton, NJ 08638
Tel: (609) 538-8586 ♦ Fax: (609) 538-8587
Email: sales@stealthmicrowave.com ♦ Web site: www.stealthmicrowave.com

J1 CONNECTOR PINOUT
(ORIENTATION AS PER DRAWING)



Pin	Description	Values
A	PA On/Off Control (RS-422)	ON/OFF +
B		ON/OFF -
C	LNA Bypass Control (RS-422)	LNA BYPASS +
D		LNA BYPASS -
E	Transmit / Receive Control (RS-422)	RXTX -
F		RXTX +
G	PA Built-in-test (RS-422)	BIT +
H		BIT -
J	GND	--
K	+VDC	+12VDC
L	GND	--
M	+VDC	+12VDC

1007 Whitehead Road Ext., Trenton, NJ 08638
Tel: (609) 538-8586 ♦ Fax: (609) 538-8587
Email: sales@stealthmicrowave.com ♦ Web site: www.stealthmicrowave.com