



1625~2300 MHz MIMO Bi-Directional Amplifier

Item # 70-162M
40 Watt Output

Shireen's new MIMO Bi-directional Amplifier

This SWaP amplifier is a wide band amplifier that covers 1625 MHz to 2300 MHz with auto TX signal detection.

Equipped with high-speed switching circuit, the unit allows use of high-speed radios. Key features include:

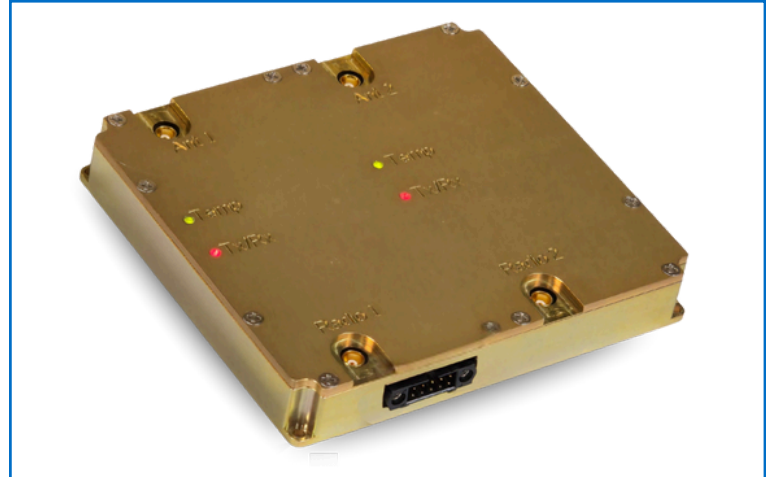
- Auto TX signal detection
- Requires no radio interface connection
- Compatibility with all modern and emerging MANET, TSM waveforms
- TX/RX indication LED
- Manual TX control Optional 5V or 3V TTL
- Available temperature sensor readings with LED indication

SPECIFICATIONS

Operating Range	1625~2300 MHz
Operating Mode	TDD, Time Division Duplex
Tx Peak Power	40W (each port)
Transmit Gain	26 (± 1) dB, (20dB optional)
Tx Input Power	2 dBm min (± 2); 23 dBm max.
Rx Gain	14 \pm 1 dB
Noise Figure	<2.5 dB
T/R Switching	Auto switching at <1 μ s
LED Indicators	Red for Rx (default mode), Green for Tx Temperature <70 °C LED Green Temperature >70 °C LED Red
DC Power	28V _{DC} , 7A Max.
DC Power Range	24-30 VDC
Power Consumption	With 28V _{DC} , 60mA Rx, 6A @ 30W Tx CW
Operating Temperature	-40 °C to +70 °C
Temperature Sensor	Indicator LED Green <70 °C, Red >70 °C

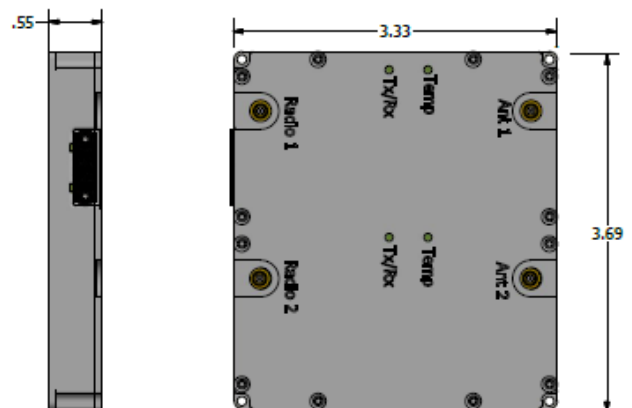
MECHANICAL SPECIFICATIONS

Dimensions (approx.)	3.3" x 3.7" x 0.6"
	Base plate has four corner flanges with holes for mounting screws.
RF Connector	Radio Input: MCX-F, ANT Output: MCX-F
Power Connector	10 Pin M80-Header connector or Fly lead Optional
Weight	190 g



10 Pin M80-Header Connector Pin configuration (Optional)

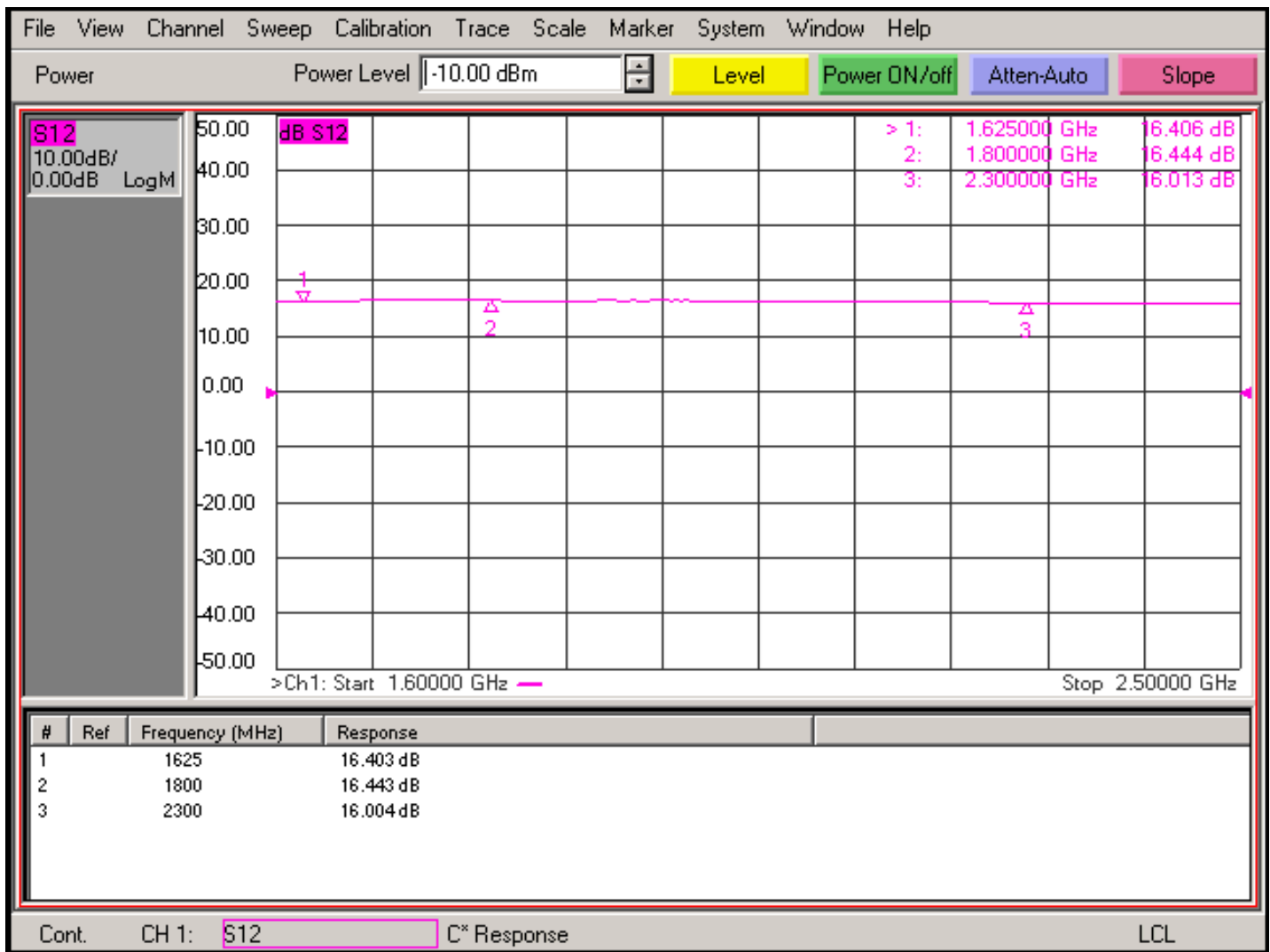
Function	I/O	Pin
Power	I	5,7,9
GND	I	6,8,10
Temp,Sensor,Slop 10mV/C	O	4
TX Ext. Enable, TTL 5V or 3V	I	1
Temp. Error, High	O	2
BDA Status, High-RX, Low-Tx	O	3





PERFORMANCE CURVES

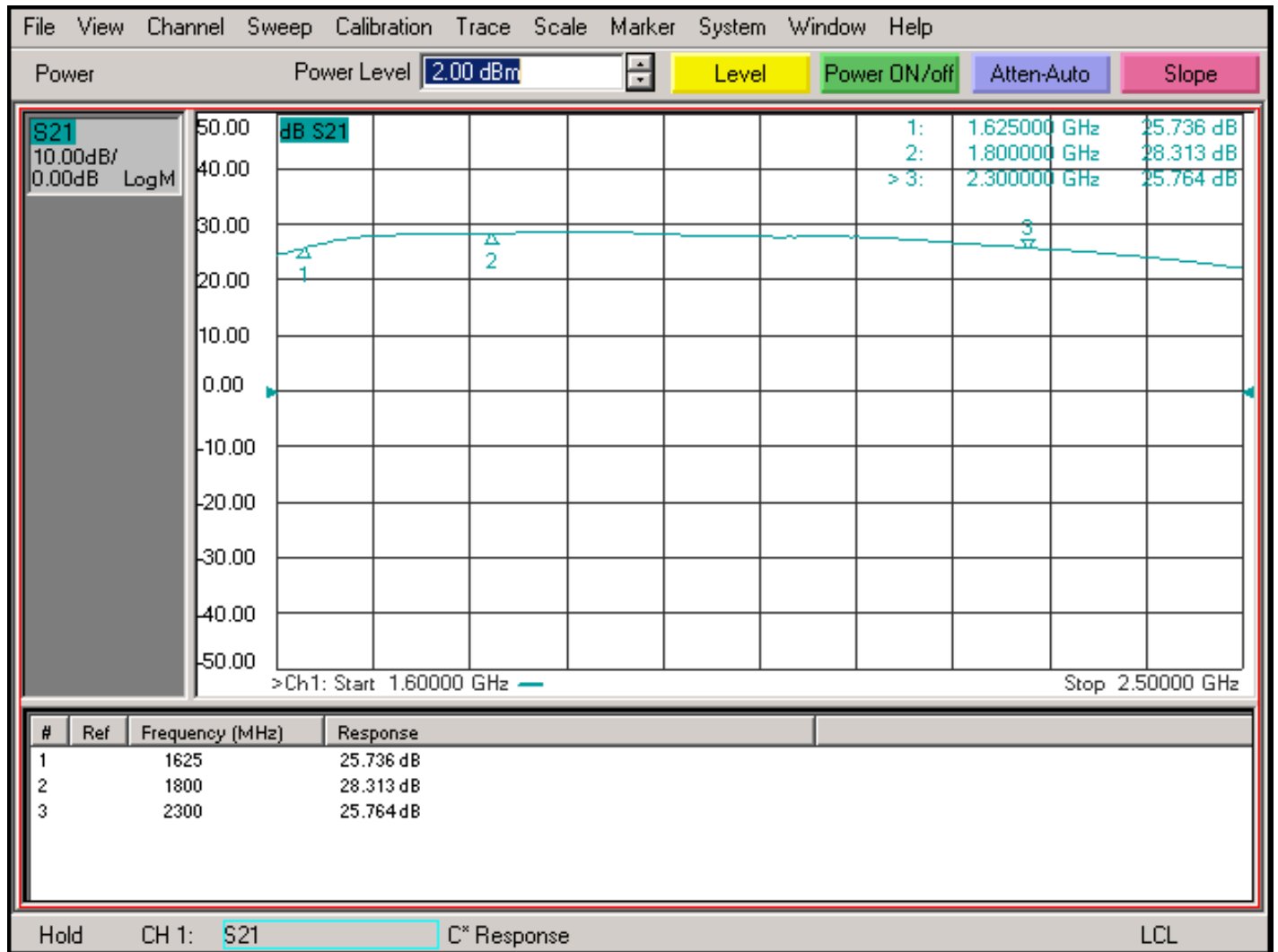
Rx Gain





PERFORMANCE CURVES

Tx Gain





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TX Frequency Sweep @ Output 40W

