



2.2~2.7 GHz SWaP Bi-Directional Amplifier

Item # 24730
40 Watt Output

Shireen's new SWaP Bi-directional Amplifier

One of low SWaP series of amplifiers by Shireen Inc.
This amplifier gives 40Watt of output and covers 2200MHz to 2700 MHz with auto TX signal detection.
Ideal for UAV type applications.
Equipped with high-speed switching circuit, the unit allows use of high-speed radios. Key features include:

- High speed Auto TX signal detection & switching
- 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

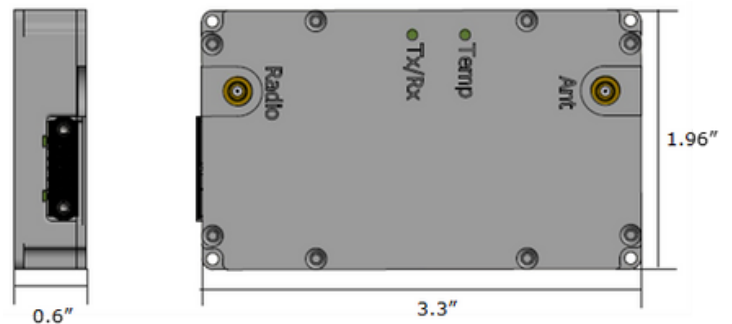


SPECIFICATIONS

Operating Range	2200~2700 MHz
Operating Mode	TDD, Time Division Duplex
Tx Peak Power	40W
Transmit Gain	27 (±1) dB, (20dB optional)
Tx Input Power	2 dBm min (±2); 23 dBm max.
Rx Gain	13 ± 1 dB
Noise Figure	<2.5 dB
T/R Switching	Auto switching at <1 μs
LED Indicators	Red for Rx (default mode), Green for Tx Temperature <70 °C LED Green Temperature >70 °C LED Red
DC Power	28V _{DC} , 3.5A Max.
DC Power Range	24-30 VDC
Power Consumption	With 28V _{DC} , 30mA Rx, 3A @ 30W Tx CW
Operating Temperature	-40 °C to +70 °C
Temperature Sensor	Indicator LED Green <70 °C, Red >70 °C

10 Pin M80-Header Connector Pin configuration (Optional)

Function	I/O	Pin
Power	I	5,7,9
GND	I	6,8,10
Temp, Sensor, Slope 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



MECHANICAL SPECIFICATIONS

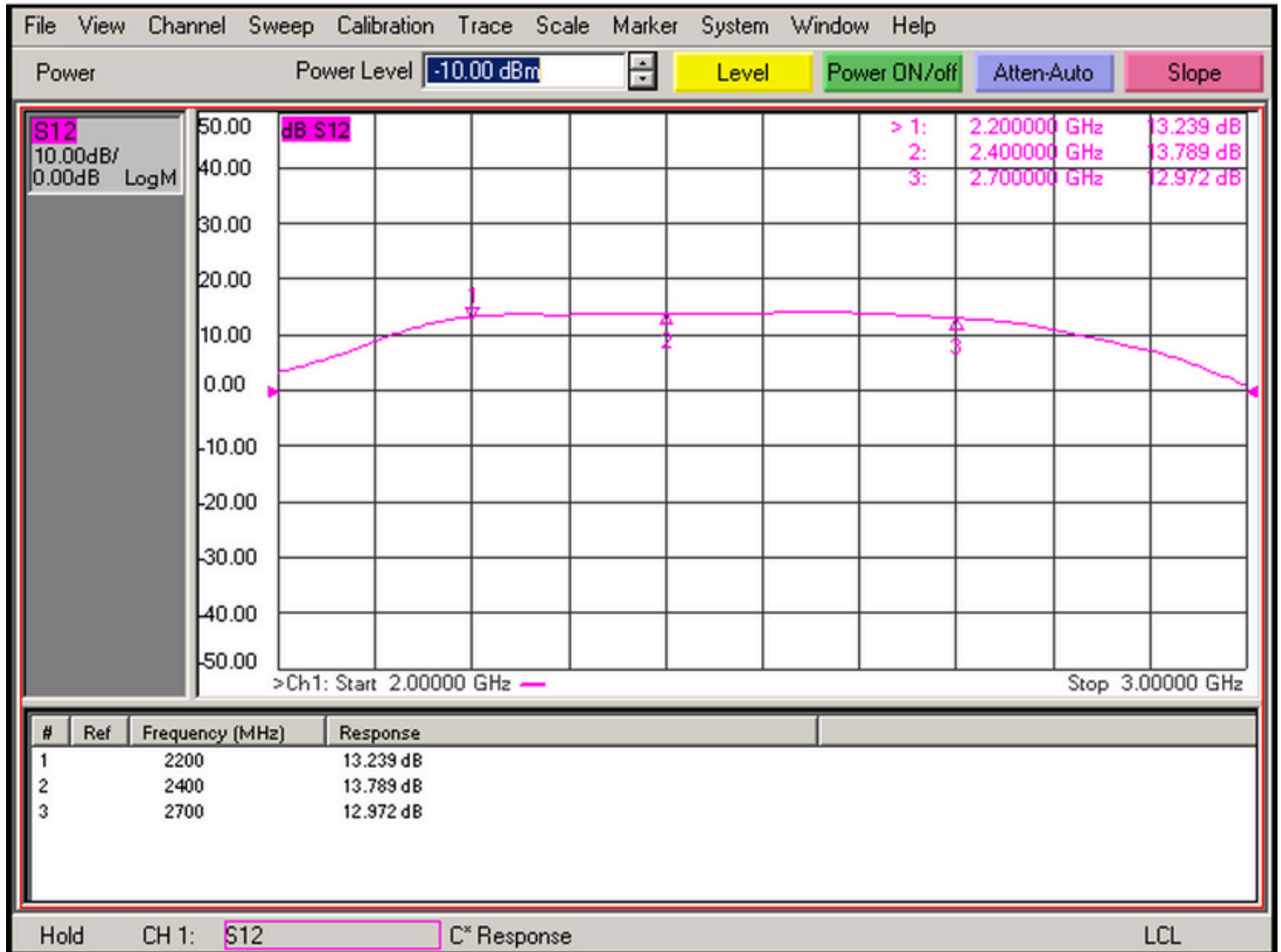
Dimensions (approx.)	3.3" x 1.96" x 0.6" With mounting Flange
RF Connector	Radio Input: MCX-F, ANT Output: MCX-F
Power Connector	10 Pin M80-Header connector or Fly lead Optional
Weight	109 g





PERFORMANCE CURVES

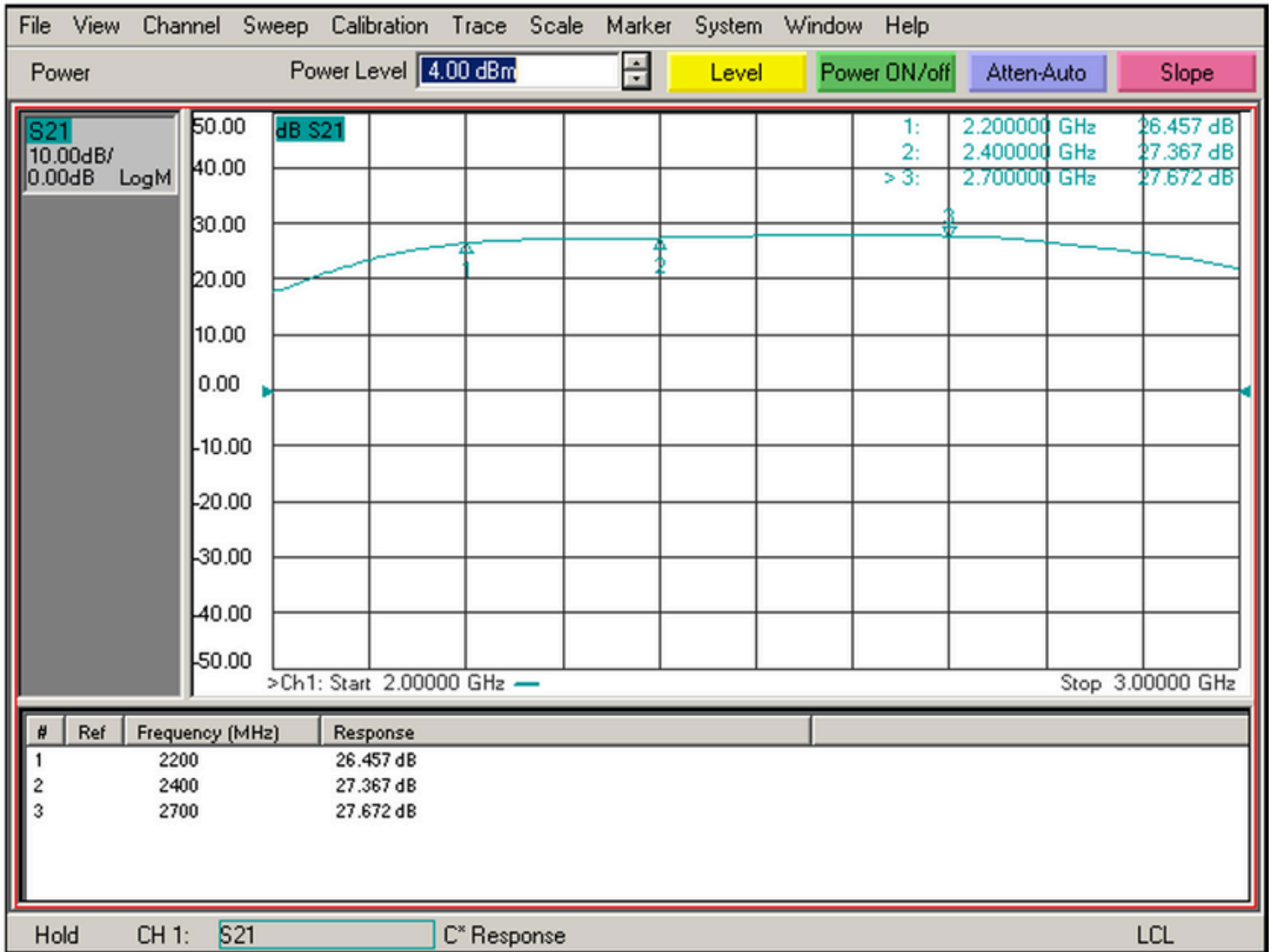
Rx Gain





PERFORMANCE CURVES

Tx Gain





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Rx Noise Figure

