

PN-1400-0102-01-Model# MTW-0400-4030-01 - 400-4000 MHz LNA MODULE

Feature

- Wideband Frequency :400– 4000 MHz
- High Gain of >25dB
- Noise Figure <2.0 dB
- P1dB > 22 dBm
- DC Power Through Output port: 7-15 VDC or DC feed through
- Input/output Connectors SMA-F
- Environmentally sealed Module for Outdoor

Overview

The MTW-0400-4030-01 LNA module is intended for use in the common data frequency bands from 680-3800 MHz, with an input power limiting diode to reduce interference from other high power transmitters.

The LNA module is housed in an environmentally sealed enclosure for outdoor use, from -40°C to 55°C.

The module can be powered through the RF output connector or the DC feed through connector.

The LNA module is designed to pick up power supply (7-15 VDC) from the output port connected outdoor-input cable linked to the indoor system; or for indoor systems connection can be through the DC feed through connector..

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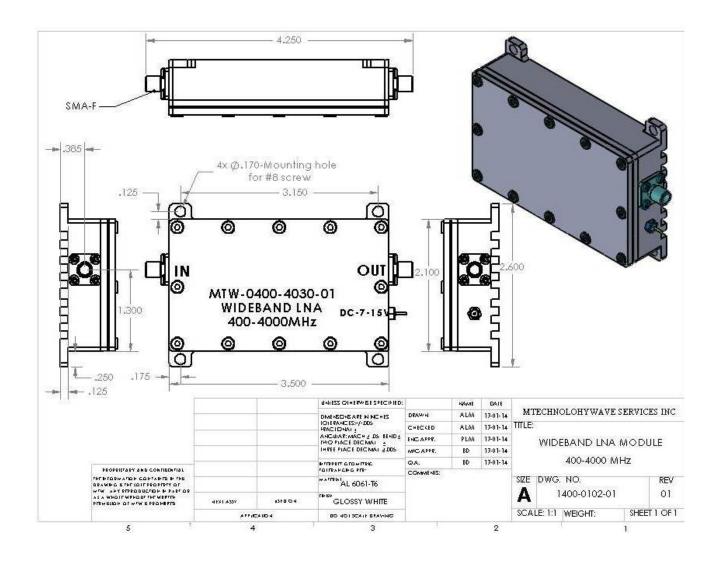
Overall LNA-Module Specification

Parameter	Description			
Frequency Band	400 – 4000 MHz			
Gain	>25 dB			
Output Return Loss	>12dB			
Input Return Loss	>6.5 dB			
P1dB	22 dBm			
Overall Module Noise Figure	<2.0 dB			
Reverse Isolation	>40 dB			
DC Power Supply	7-15 VDC @ 0.25 Amp			
Power Rating	3.75W max.			
Impedance	50Ω nominal			
RF Interface Connector	2-Ports SMA-F with O-Ring			
DC Interface Connector	Output RF SMA-F or DC EMI filter feed through			
Environmental	-40 to 55°C, Sealed for Outside Mounting			
Overall Dimensions	3.50"x2.60"x0.88"			
Paint	Glossy White - UV			

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1400-0102-01 - LNA Module Mechanical Drawing



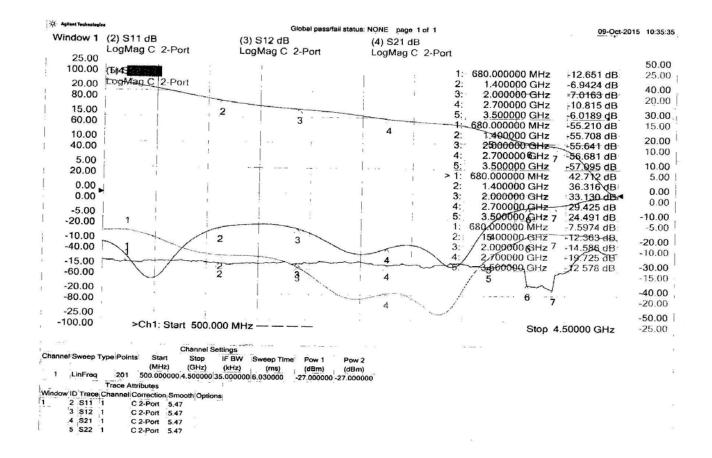


MTW-0400-4030-01 – MODULE PICTURE



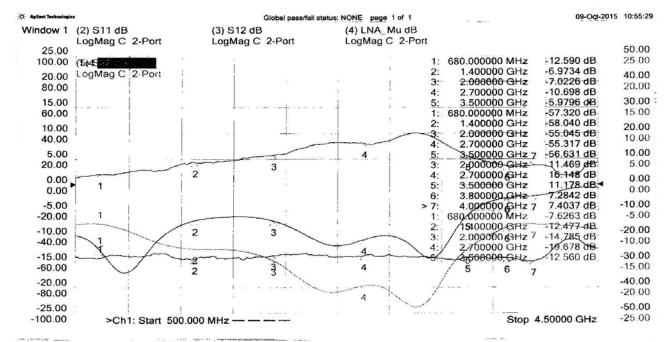


MTW-0400-4030-01 - S11, S21 & S22 - TYPICAL





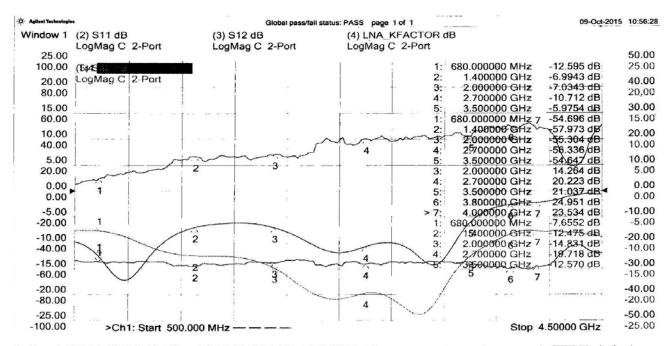
MTW-0400-4030-01 - MuFACTOR TYPICAL



				Channel S	Settings			
Channel Sweep Type Points			Start (MHz)	Stop (GHz)	IF BW (kHz)	Sweep Time (ms)	Pow 1 (dBm)	Pow 2 (dBm)
1	LinFreq	201	500.00000	0 4.500000	35.00000	06.030000	-27.000000	-27.000000
Windo	ow ID Trace		tributes Correction	Smooth	ptions			
1	2 511	1	C 2-Port	5.47				
	3 812	1	C 2-Port	5.47				
	4 LNA ML	1.1	C 2-Port	5.47				
	5 522	1	C 2-Port	5.47	ė			



MTW-0400-4030-01 - KFACTOR TYPICAL



				Chan	nel Sett	ings	AL 10 10 10		
Channe	Sweep Typ	e Points	Start (MHz			F BW (kHz)	Sweep Time (ms)	Pow 1 (dBm)	Pow 2 (dBm)
1	LinFreq	201	500.000	000 4.500	000 35	.000000	6.030000	-27.000000	-27.000000
		Trac	e Attribu	tes					
Window	ID Tra	ce .	Channel	Correction	Smoo	th Optio	ons		
1	2 511		1	C 2-Port	5.47				
	3 S12		1	C 2-Port	5.47				
	4 LNA KE	ACTOR	1	C 2-Port	5.47				
	5 S22		1	C 2-Port	5.47				