LNA-1835

HIGH GAIN-HIGH LINEARITY LOW NOISE AMPLIFIER 200-2000 MHZ

Features

- Freq. Range: 200-2000 MHz
- Gain: 37 dB
- P_{1dB}: +13 dBm
- IP3: +25 dBm
- Noise Figure: 1.2 dB
- DC Power: 12 V, 132 mA
- SMA Connector

Performance measured @ 1000 MHz

Description

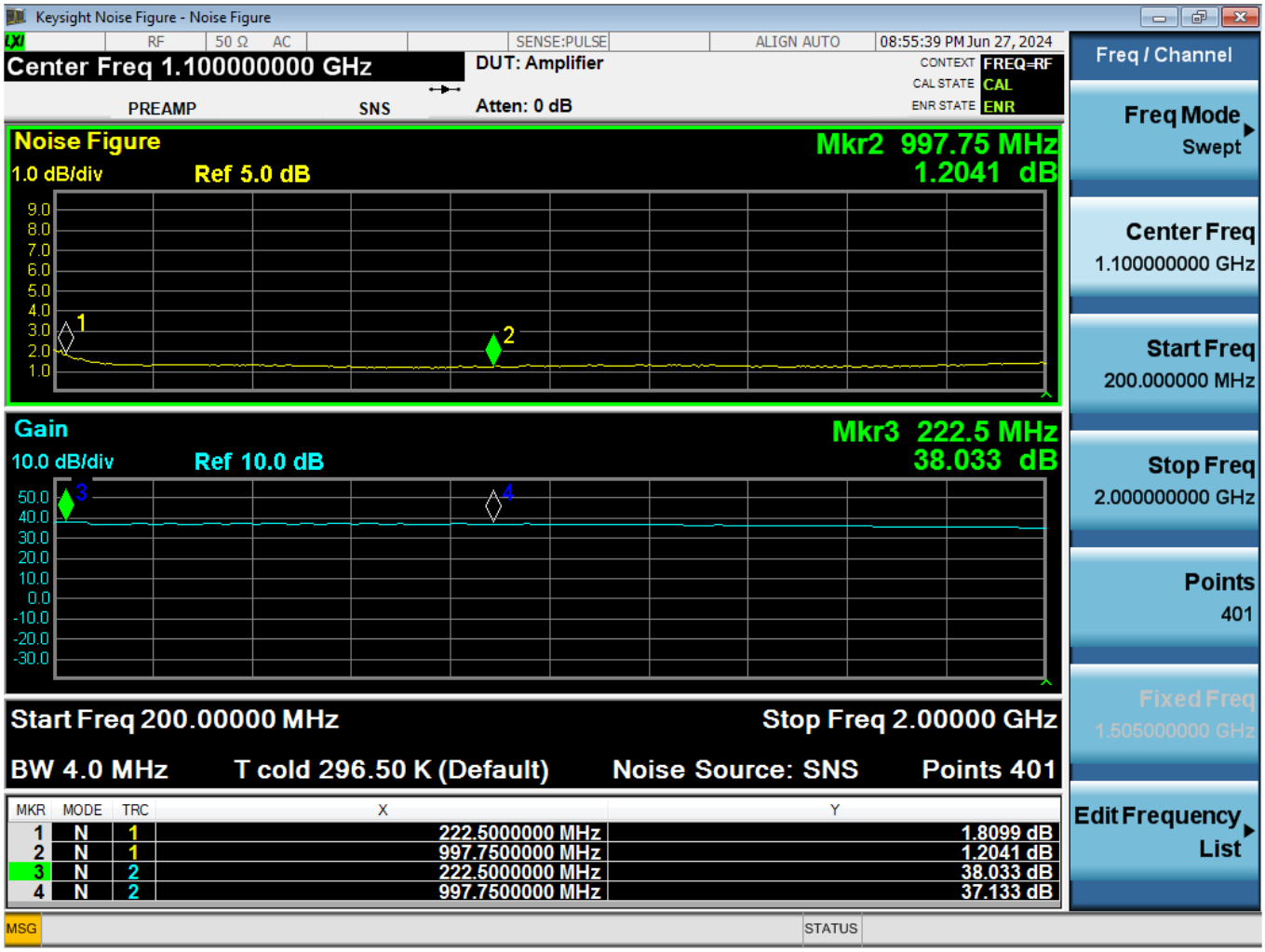
LNA-1835 is a 37 dB gain wideband Low Noise Amplifier with a frequency range from 200 MHz to 2000 MHz.

Picture

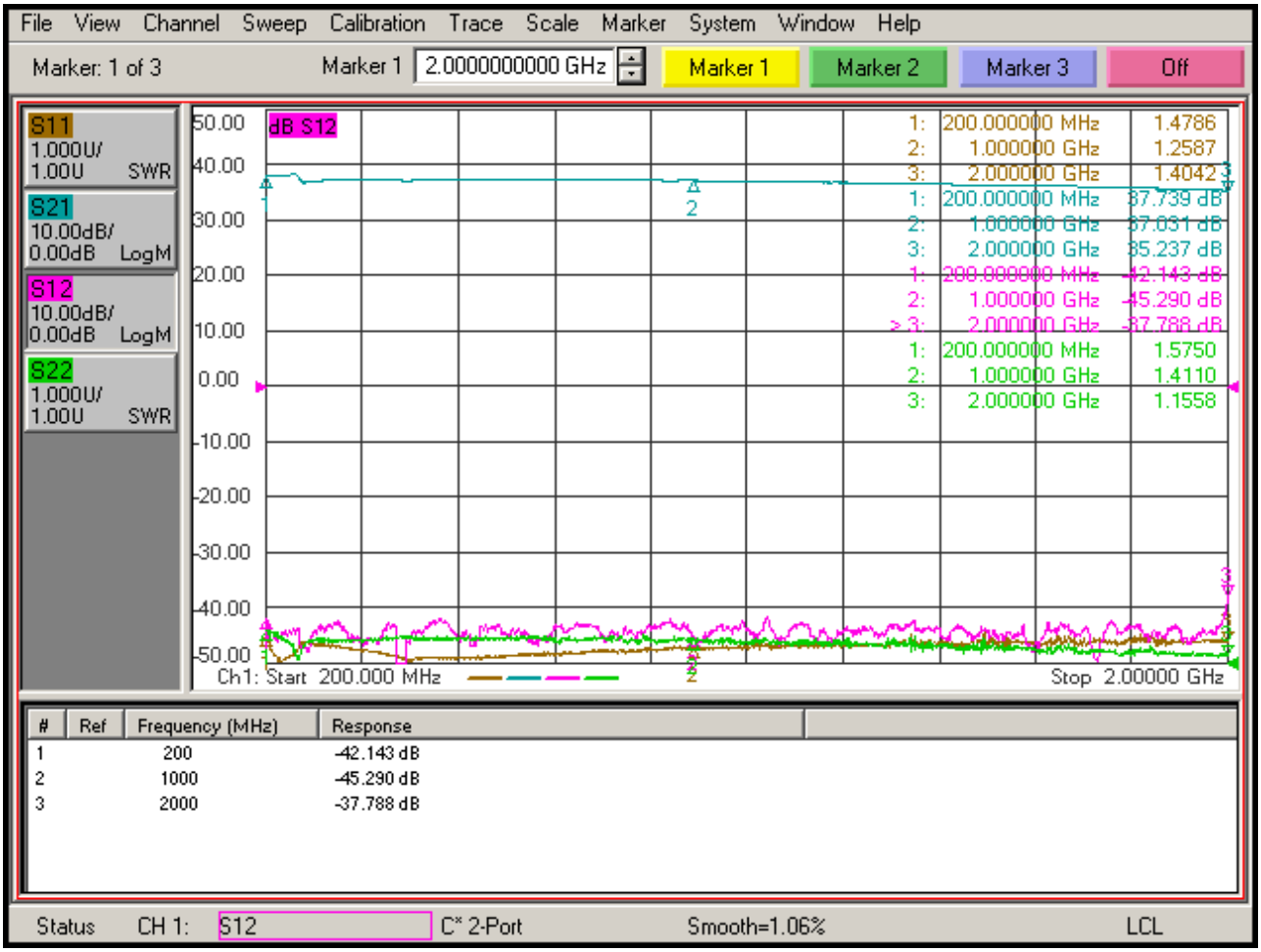
Electrical Specifications @ +25 °C, $Z_{in} = Z_{out} = 50\Omega$, Vcc = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	200		2000
Gain	dB	35	37	38
Gain Flatness	dB		± 2	
P_{1dB}	dBm		+13	
IP3	dBm		+25	
Noise Figure	dB		1.2	<2
Reverse Isolation	dB		-45	
VSWR Input VSWR Output VSWR			1.2:1 1.4:1	
DC Power Supply	V	6	12	18
Supply Current	mA	106	132	132
Size (excluding SMA connectors)	inch	1.25” x 1.25” x 0.56”		
Weight	Oz	1.5		

Noise Figure, Gain vs Frequency



Gain S21, Return Loss, S11, S22 vs Frequency



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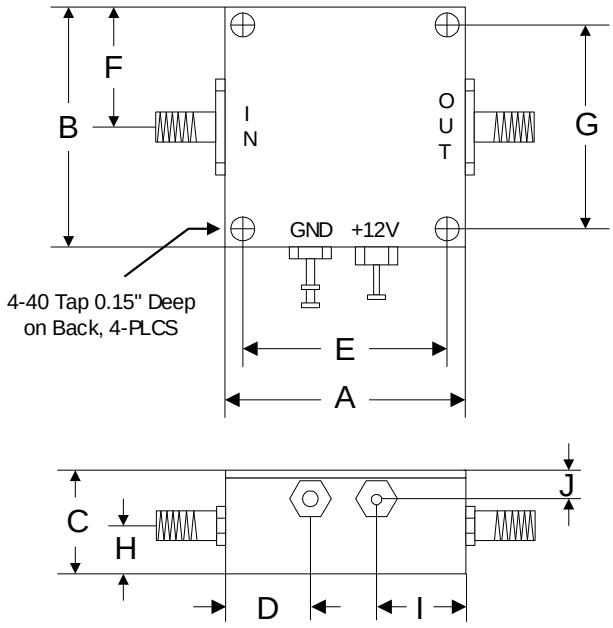
Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	-7dBm
Supply Voltage	+18V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

Outline



	A	B	C	D	E	F	G	H	I	J
Inch	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
mm	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76