

LNA Series

200 – 1800MHz Low Noise Amplifier

Features

- Frequency Range: 200-1800MHz
- Gain: 35dB
- P_{1dB}: +13dBm
- IP3: +24dBm
- Noise Figure: 1.8dB
- DC Power: 10V-18V/80mA
- SMA Connector

Description

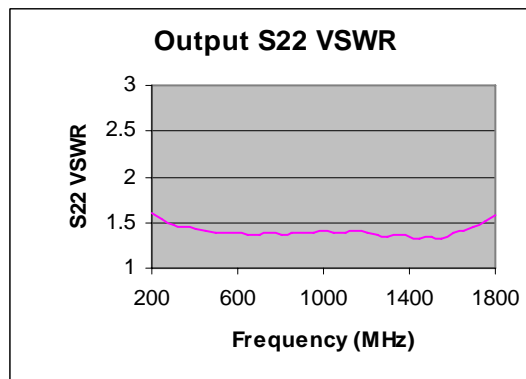
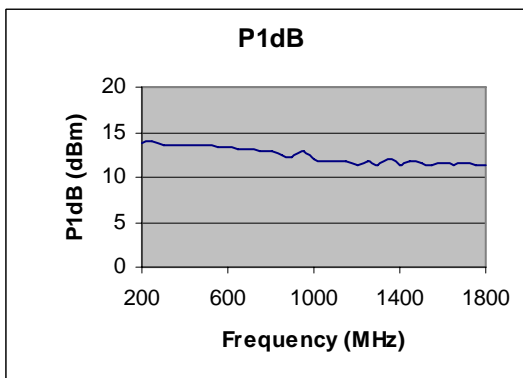
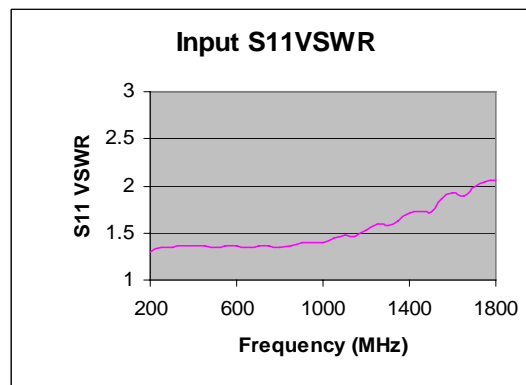
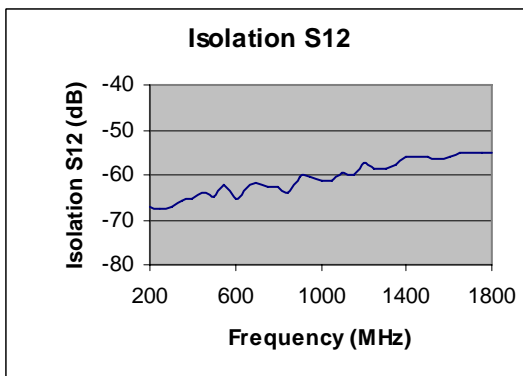
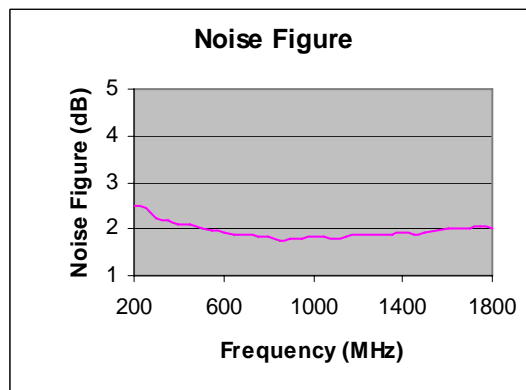
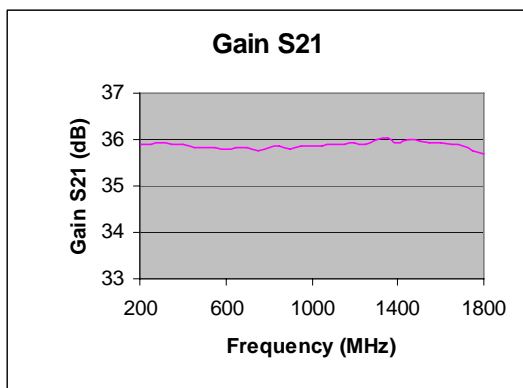
LNA-1835 is a 35dB gain wideband Low Noise Amplifier operates with frequency range from 200MHz to 1800MHz.

Performance measured @ 1000MHz

Electrical Specifications @ +25 °C, Z_{in} = Z_{out} = 50Ω, V_{cc} = +12V

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	200		1800
Gain	dB		35	
Gain Flatness	dB		±0.3	
P _{1dB}	dBm		+13	
IP3	dBm		+24	
Noise Figure	dB		1.8	
Reverse Isolation	dB		-60	
VSWR				
Input VSWR			1.4:1	
Output VSWR			1.4:1	
DC Power Supply	V	10	12	18
Supply Current	mA		80	
Size (excluding SMA connectors)	inch	1.25" x 1.25" x 0.56"		
Weight	Oz	1.5		

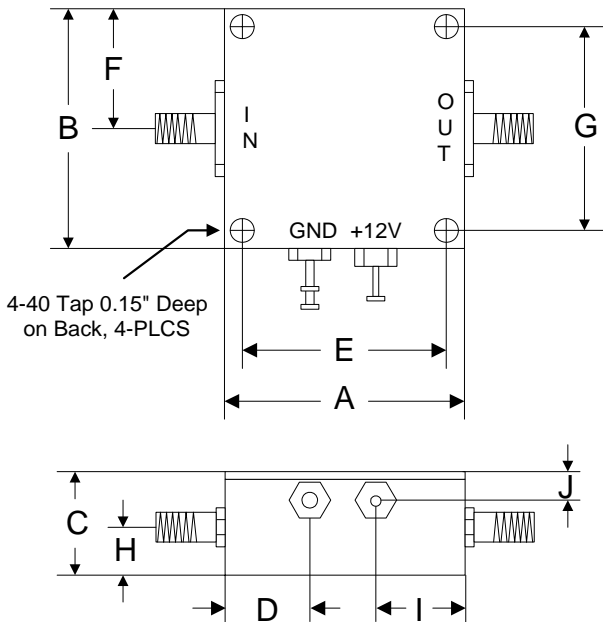
Typical Performance @ +25 °C



Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+13dBm
Supply Voltage	+25V
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