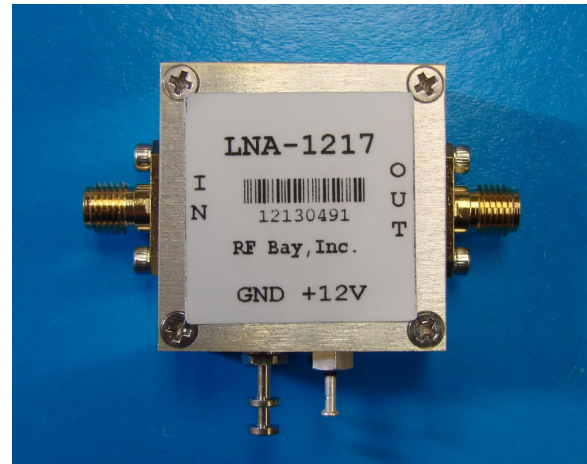


**LNA Series****1200 – 1700MHz Low Noise Amplifier****Features**

- Frequency Range:1200–1700MHz
- Gain: 15dB
- P<sub>1dB</sub>: +19dBm
- IP3: +34dBm
- Noise Figure: 0.6dB (typ.)
- DC Power: 12V @ 45mA
- Reverse Polarity Protection
- Internally Voltage Regulated
- SMA-Female Connectorized

**Photo**

Performance measured @ 1450MHz

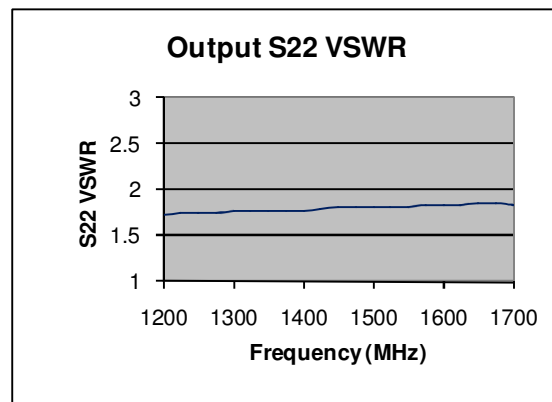
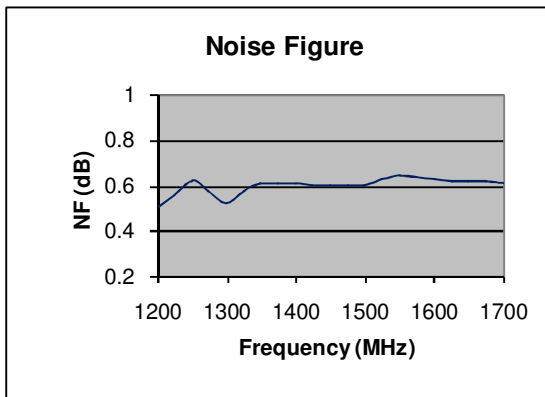
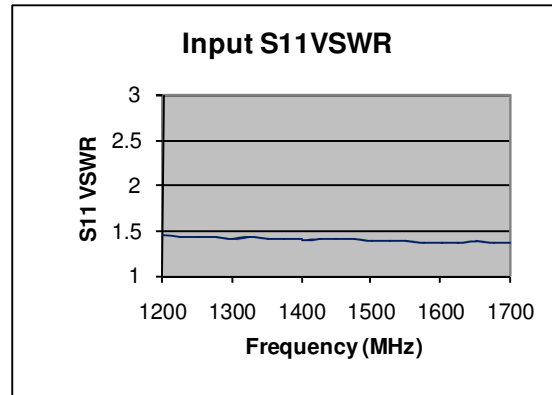
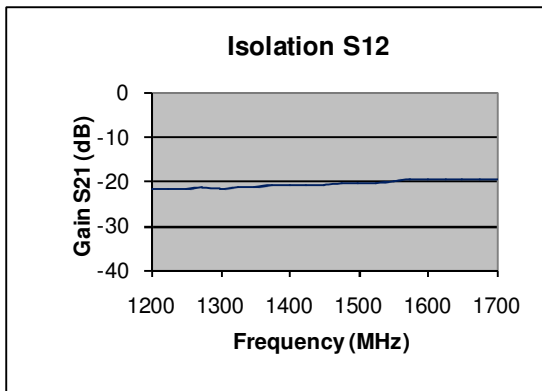
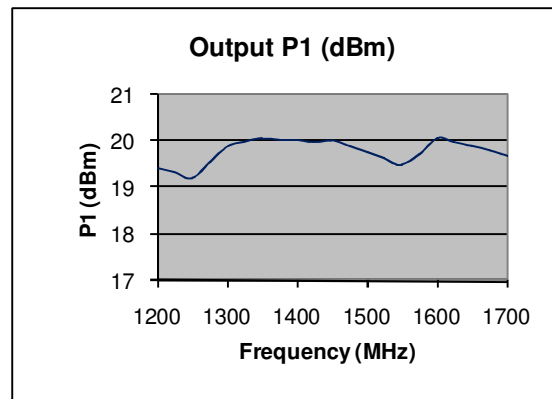
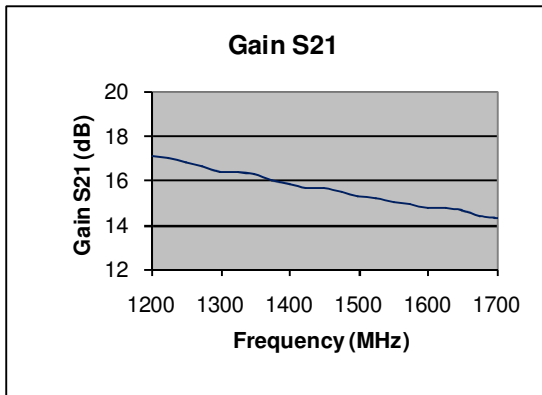
**Description**

LNA-1217 is a 0.6dB Noise Figure Low Noise Amplifier operates with frequency range from 1200 to 1700MHz.

**Electrical Specifications @+25 °C, Z<sub>in</sub>=Z<sub>out</sub>=50 Ohm, V<sub>supply</sub> = +12VDC**

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1200		1700
Gain (S <sub>21</sub> ) f = 1217MHz	dB	16.0	17.0	18.0
f = 1450MHz	dB	14.5	15.5	16.5
f = 1620MHz	dB	13.5	14.5	15.5
Output Power P <sub>1dB</sub>	dBm	+18	+19	+20
Output Third Order Intercept IP3	dBm	+32	+34	+35
Noise Figure @1450MHz	dB	0.4	0.6	0.8
Reverse Isolation (S <sub>12</sub> ) @1450MHz	dB	-18	-20	-25
VSWR-Input (S <sub>11</sub> ) 1.2-1.7GHz	ratio:1		1.4:1	1.6:1
VSWR-Output (S <sub>22</sub> ) 1.2-1.7GHz	(unitless)		1.8:1	2.0:1
DC Power Supply - voltage	V	9	12	18
DC Power Supply - current	mA	40	45	55
Operating Temperature	°C	-40		+85
Size (RF/DC feedthru's excluded)	Inch	1.25 (L) x 1.25 (W) x 0.56 (H)		
Weight	Oz	1.6 (45 grams)		

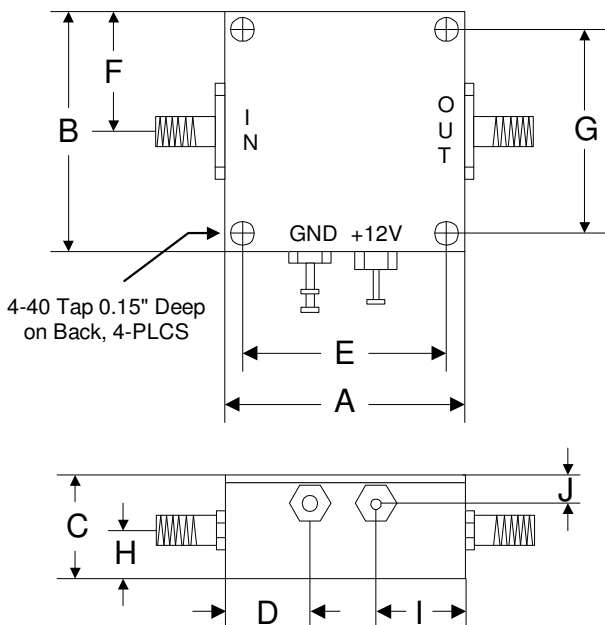
### Typical Performance @ +25 °C



### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+20dBm
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