

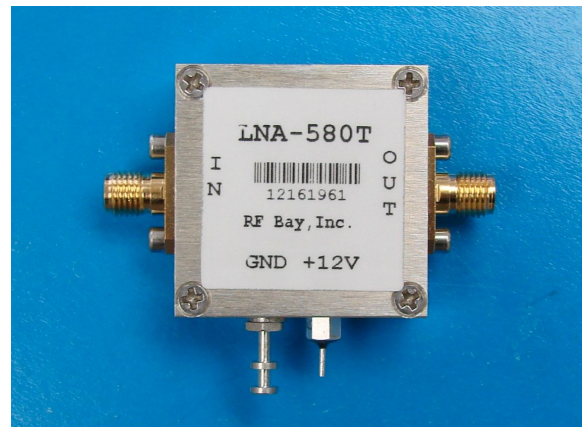
**LNA Series**

**10 – 580MHz Low Noise Amplifier**

**Features**

- Frequency Range: 10 - 580MHz
- Gain: 23dB
- P<sub>1dB</sub>: +19dBm
- IP3: +33dBm
- Noise Figure: 0.7dB
- DC Power: 12V/70mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

**Picture**



Performance measured @ 250MHz

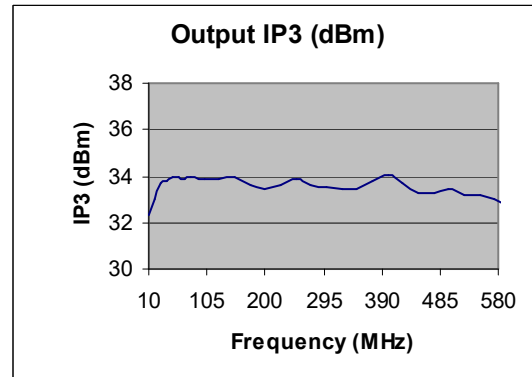
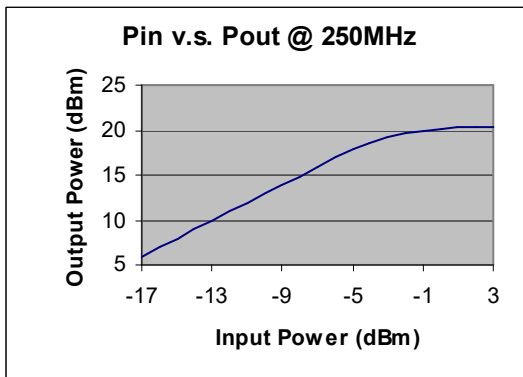
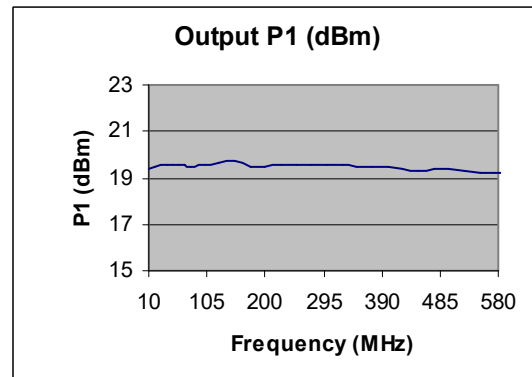
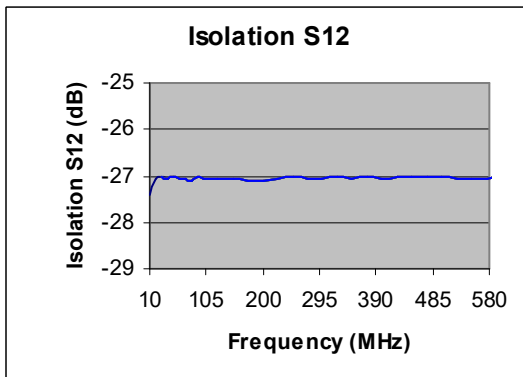
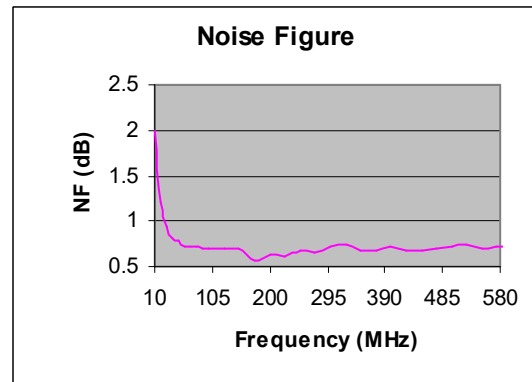
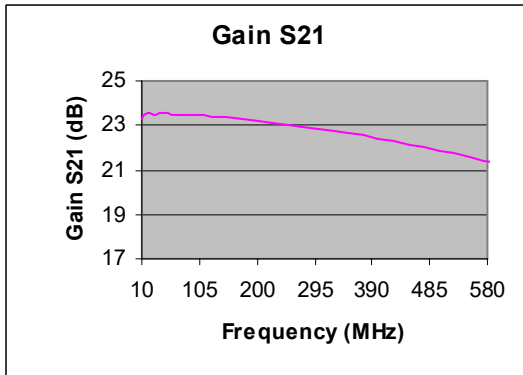
**Description**

LNA-580T is a 0.7dB Noise Figure Low Noise Amplifier operates in frequency range from 10MHz to 580MHz.

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

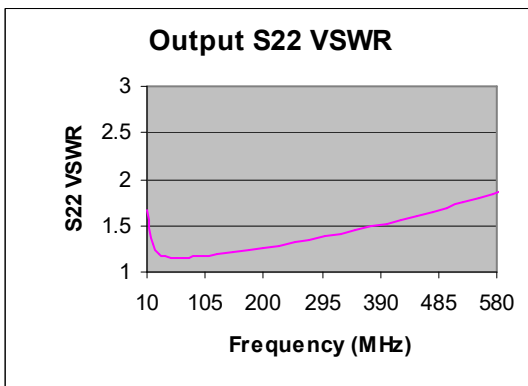
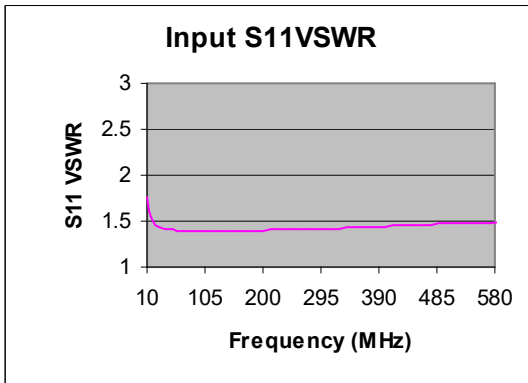
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		580
Gain f = 10MHz	dB		23	
f = 250MHz	dB		23	
f = 580MHz	dB		21.5	
Gain Flatness	dB		± 0.9	
P <sub>1dB</sub>	dBm		+19	
IP3	dBm		+33	
Noise Figure	dB		0.7	
Reverse Isolation	dB		-27	
VSWR Input VSWR			1.5:1	
Output VSWR			1.5:1	
DC Power Supply	V	9	12	15
Supply Current	mA		70	

**Typical Performance @ +25 °C**



**LNA Series**

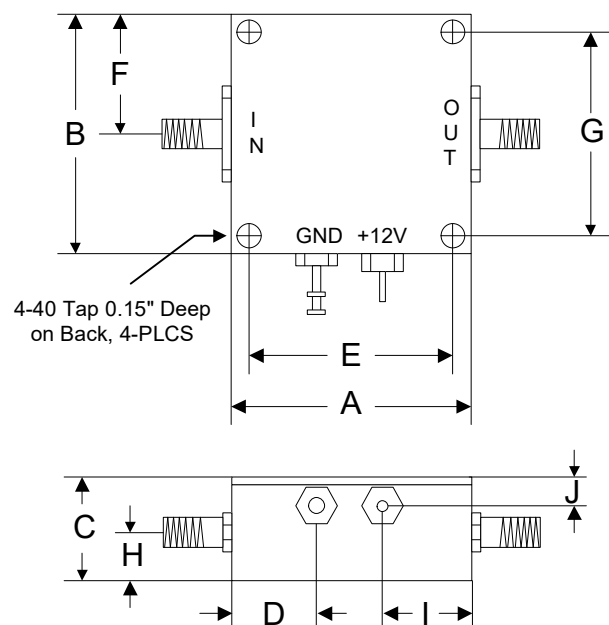
**10 – 580MHz Low Noise Amplifier**



**Absolute Maximum Ratings**

Parameter	Absolute Maximum
RF Input Power	+15dBm
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
<b>Inch</b>	1.250	1.250	0.563	0.450	1.000	0.625	1.000	0.250	0.500	0.187
<b>mm</b>	31.75	31.75	14.29	11.43	25.40	15.88	25.40	6.35	12.70	4.76