

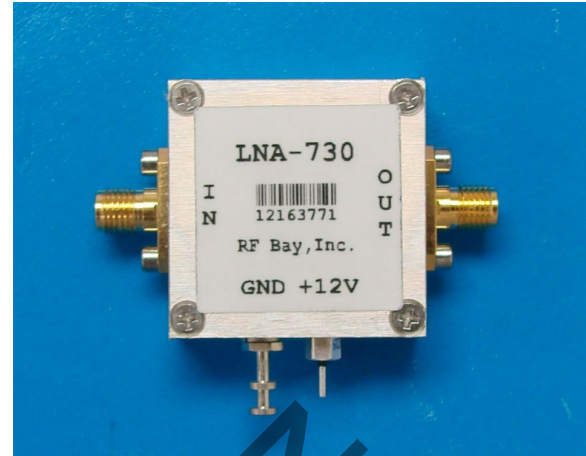
LNA Series

50 – 750MHz Low Noise Amplifier

Features

- Frequency Range: 50-750MHz
- Gain: 20dB
- P_{1dB} : +19dBm
- IP3: +33dBm
- Noise Figure: 1.3dB
- DC Power: 12V/75mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

Picture



Description

LNA-730 is a 20dB Gain 1.3dB Noise Figure Low Noise Amplifier operates in frequency range from 50 to 750MHz.

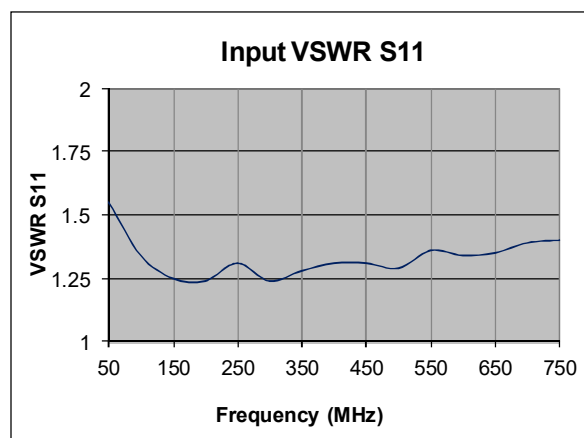
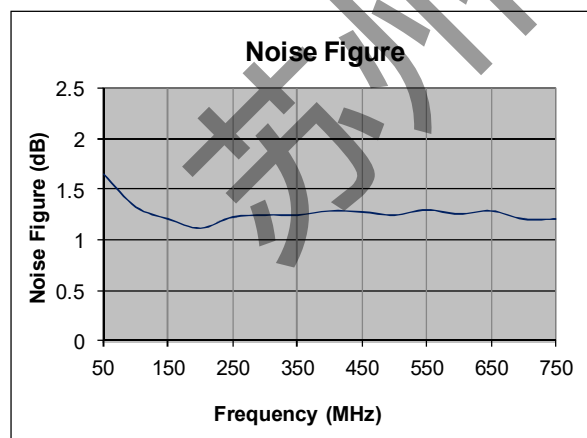
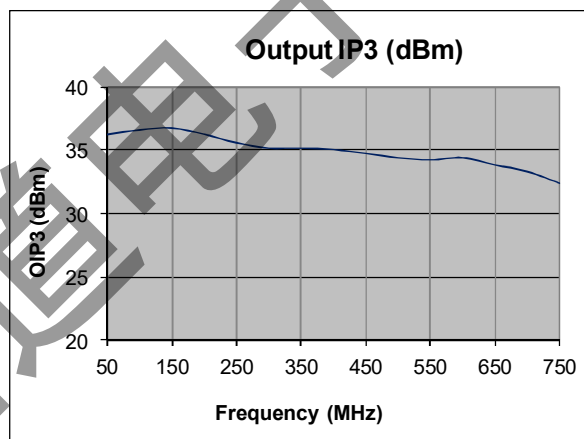
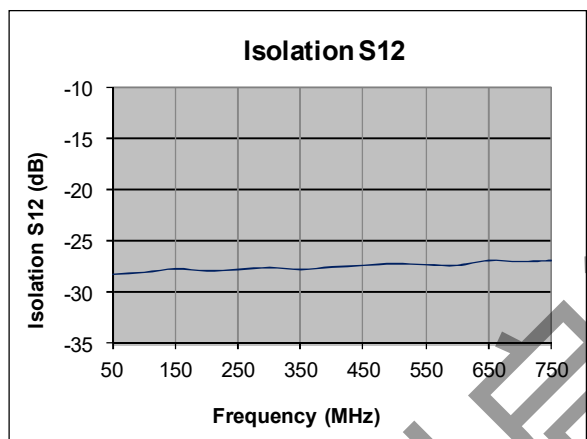
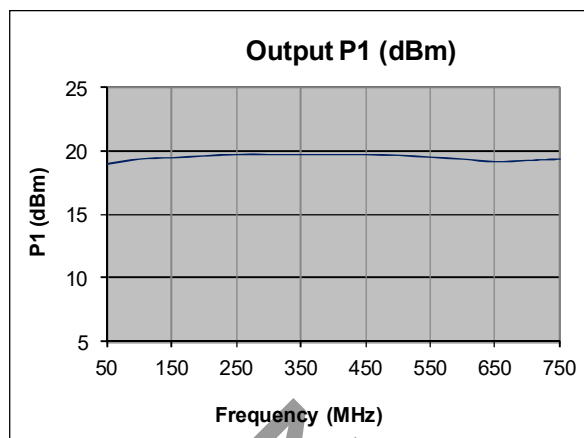
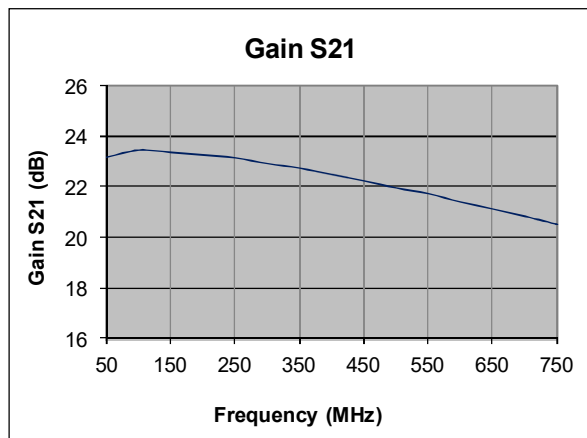
Electrical Specifications @ +25 °C, $Z_{in} = Z_{out} = 50 \Omega$, $V_{supply} = 12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	50		750
Gain S21	dB			
f = 50MHz	dB		23.2	
f = 100MHz	dB		23.4	
f = 200MHz	dB		23.0	
f = 400MHz	dB	20.0	22.5	
f = 600MHz	dB		21.4	
f = 750MHz	dB		20.5	
Gain Flatness	dB		± 1.5	± 2.0
P_{1dB}	dBm	+18	+19	
Output IP3	dBm	+31	+33	
Noise Figure	dB		1.3	1.7
Reverse Isolation S12	dB	-25	-27	
VSWR				
Input VSWR S11			1.3:1	1.7:1
Output VSWR S22			1.2:1	1.7:1
DC Power Supply	V	11	12	24
Supply Current	mA		75	85

LNA Series

50 – 750MHz Low Noise Amplifier

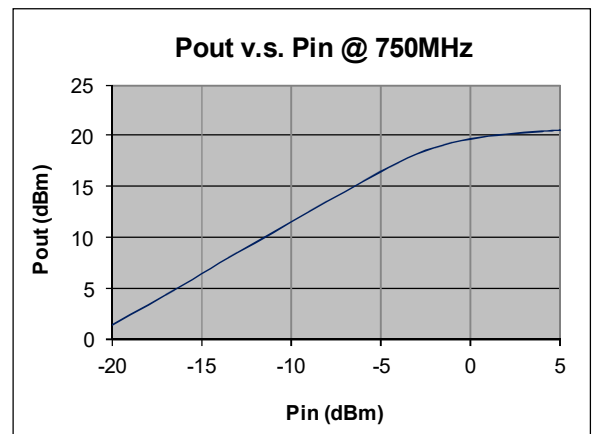
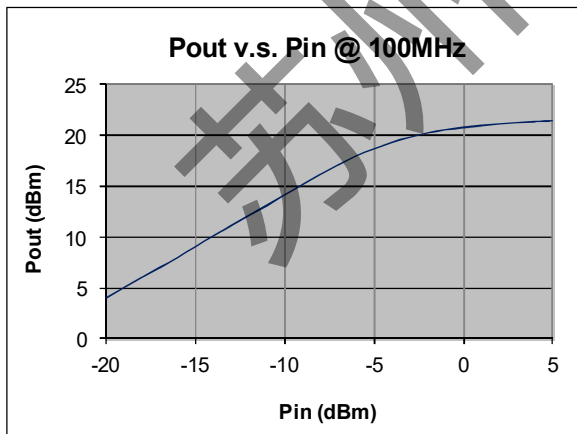
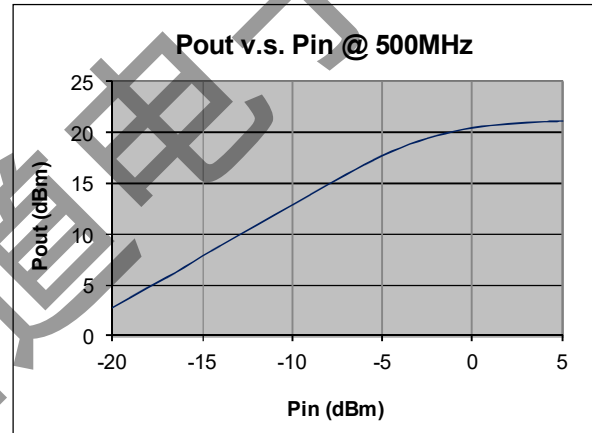
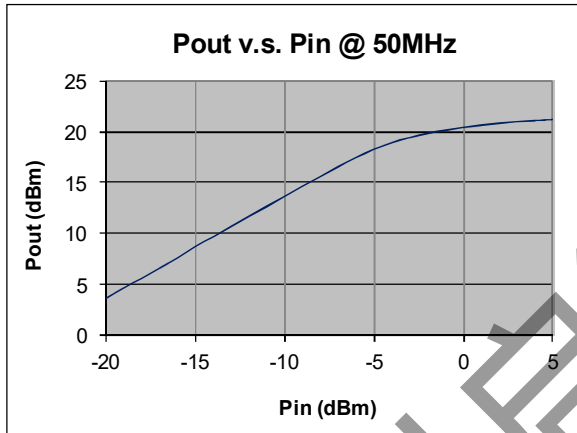
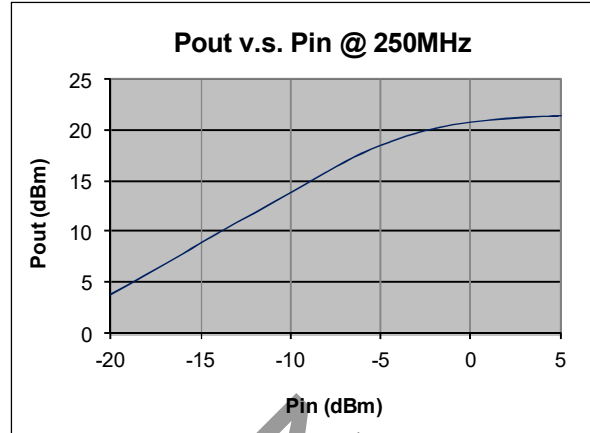
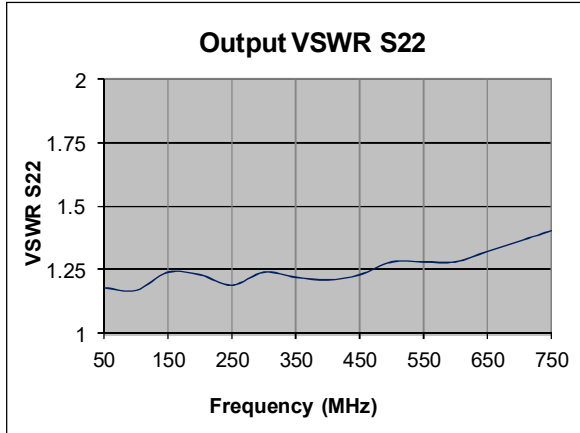
Typical Performance @ +25 °C



LNA Series

50 – 750MHz Low Noise Amplifier

Typical Performance @ +25 °C



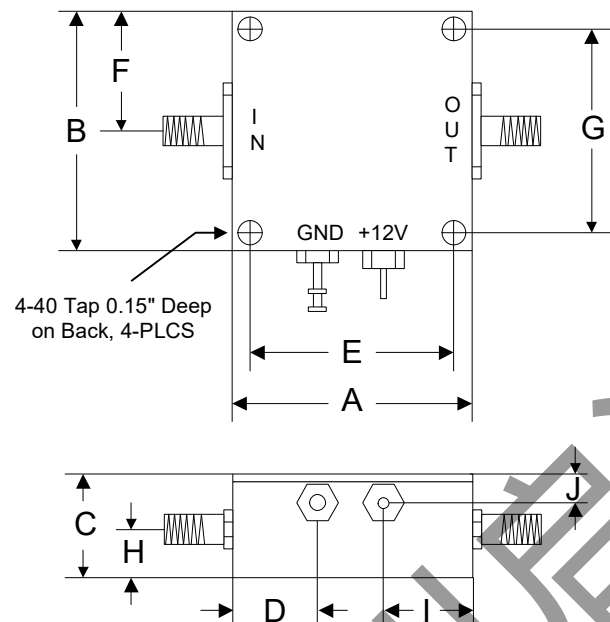
LNA Series

50 – 750MHz 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
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

WARNING: MUST USE HEAT SINK IF CASE TEMPERATURE EXCEEDS 50 °C