

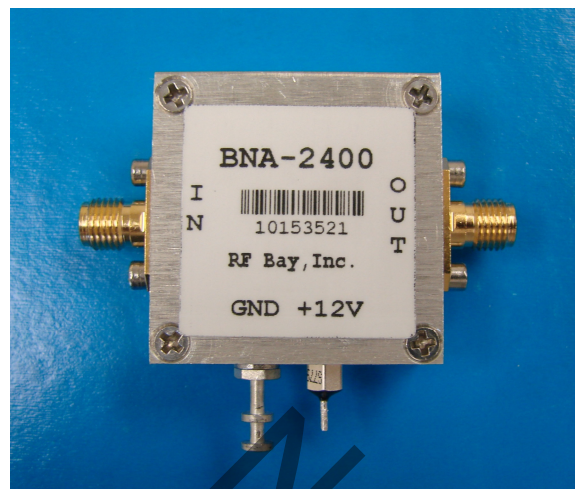
BNA Series

2450MHz ISM Band Amplifier

Features

- Center Frequency: 2450MHz
- Gain: 20dB
- Bandwidth: 100MHz
- P_{1dB} : +4dBm
- IP3: +15dBm
- Noise Figure: 1.8dB
- DC Power: 12V/18mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

Picture



Performance measured @ 2450MHz

Description

BNA-2400 is Band Limited Low Noise Amplifier designed for 2.4GHz ISM Band receive application.

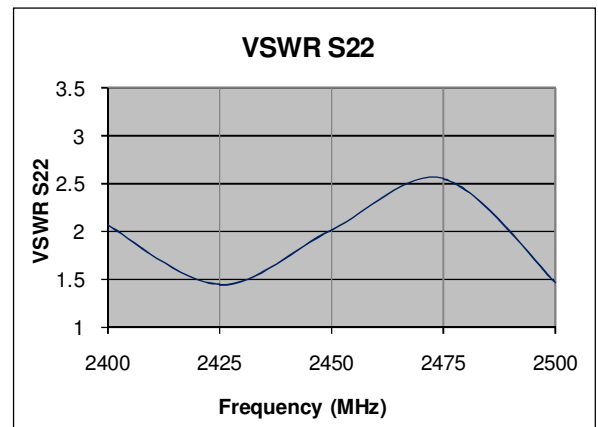
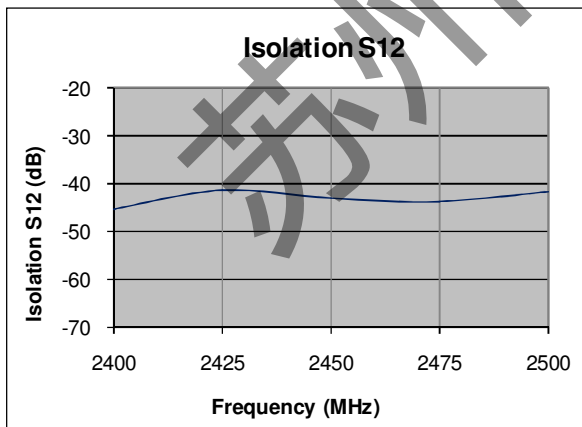
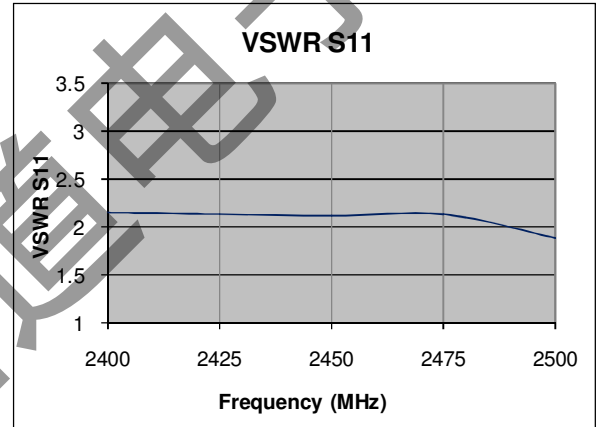
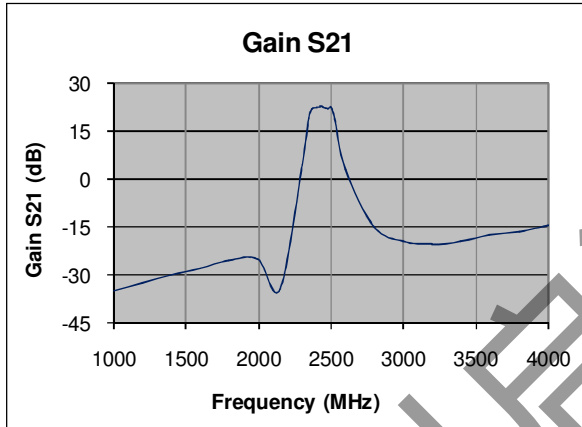
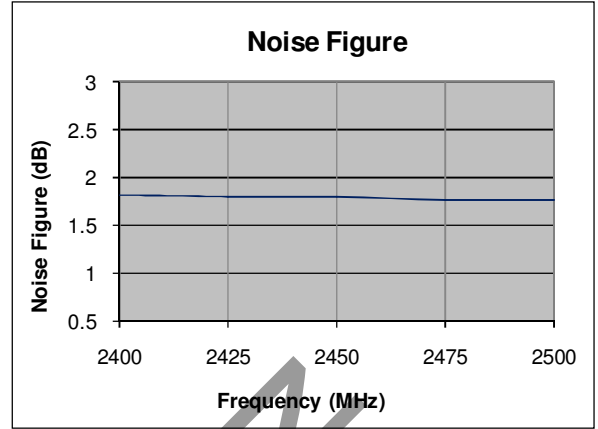
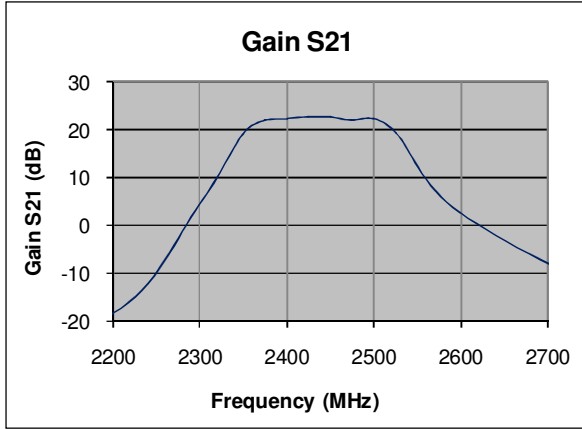
Electrical Specifications @ +25 °C, $Z_{in} = Z_{out} = 50 \Omega$, $V_{cc} = 12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2400	2450	2500
Bandwidth	MHz		±50	
Gain	dB		20	
Gain Flatness	dB		± 0.3	± 0.5
P_{1dB}	dBm		+4	
IP3	dBm		+15	
Noise Figure	dB		1.8	2.2
Reverse Isolation	dB		-40	
VSWR Input VSWR Output VSWR			1:2.2 1:2.2	
DC Power Supply	V	9	12	15
Supply Current	mA		18	

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Typical Performance @ +25 °C



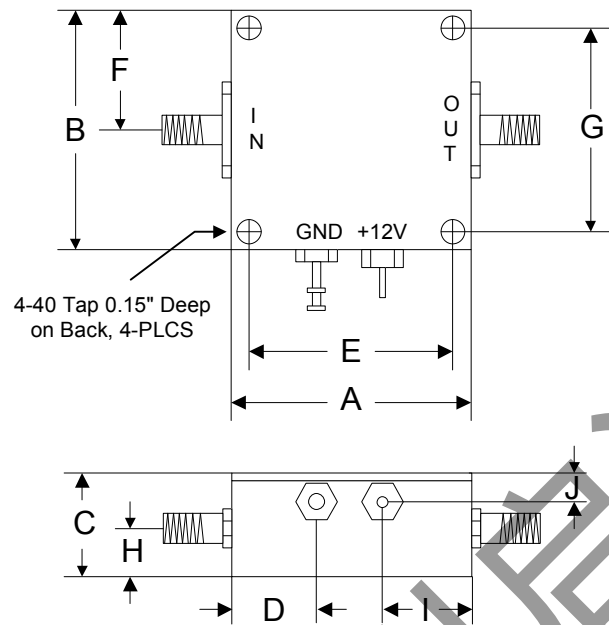
BNA Series

2450MHz ISM Band Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+15dBm
Supply Voltage	+20V
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