

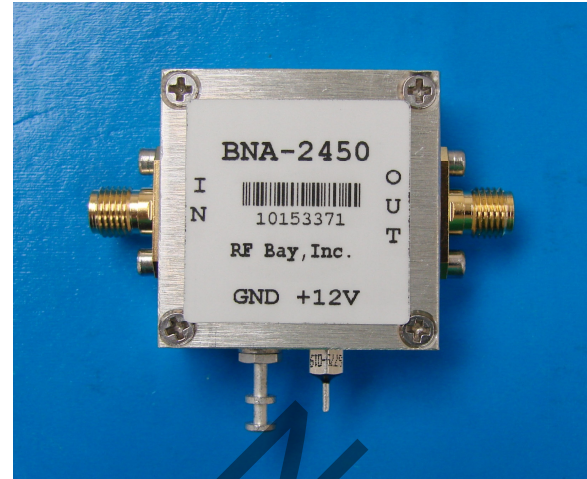
## BNA Series

## 2450MHz ISM Band Amplifier

### Features

- Center Frequency: 2450MHz
- Gain: 40dB
- Bandwidth: 100MHz
- $P_{1dB}$ : +4dBm
- IP3: +15dBm
- Noise Figure: 2dB
- DC Power: 12V/30mA
- Internal Voltage Regulated
- Reverse DC Protection
- SMA Connector

### Picture



Performance measured @ 2450MHz

### Description

BNA-2450 is Band Limited Low Noise Amplifier designed for 2.4GHz ISM Band receive application.

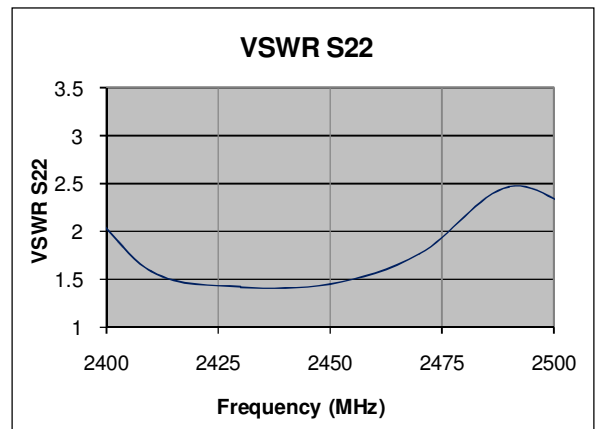
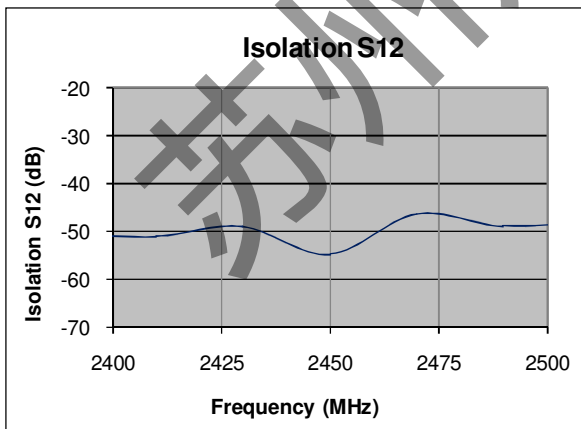
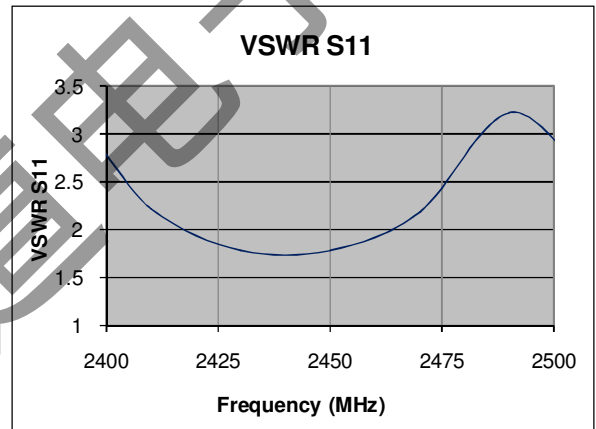
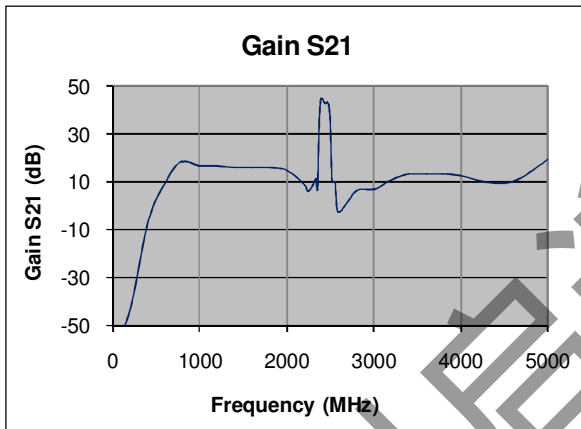
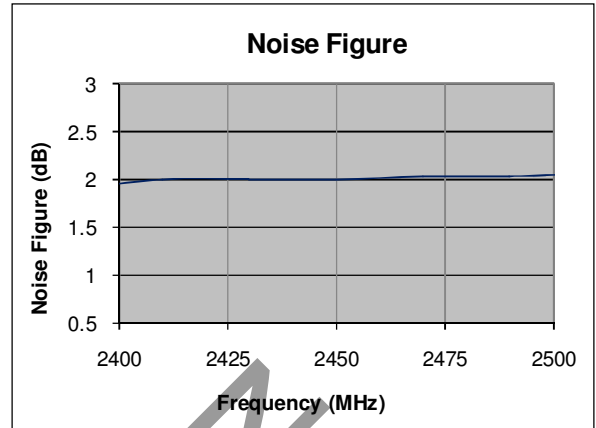
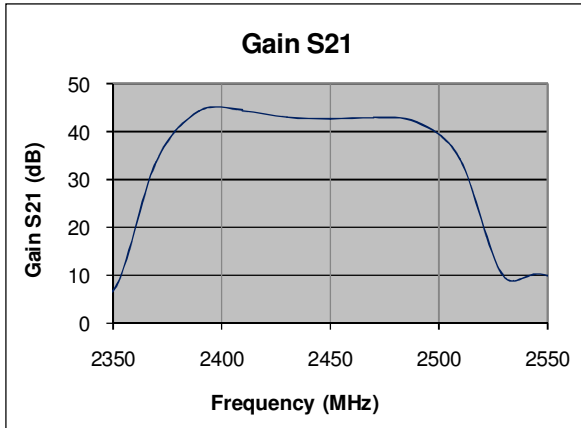
### Electrical Specifications @ +25 °C, $Z_{in} = Z_{out} = 50 \Omega$ , $V_{cc} = 12V$

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	2400	2450	2500
Bandwidth	MHz		±50	
Gain	dB		40	
Gain Flatness	dB		± 2.0	± 2.5
$P_{1dB}$	dBm		+4	
IP3	dBm		+15	
Noise Figure	dB		2.0	2.5
Reverse Isolation	dB		-50	
VSWR Input VSWR Output VSWR			1:1.8 1:1.5	
DC Power Supply	V	9	12	15
Supply Current	mA		30	

**BNA Series**

**2450MHz ISM Band Amplifier**

**Typical Performance @ +25 °C**



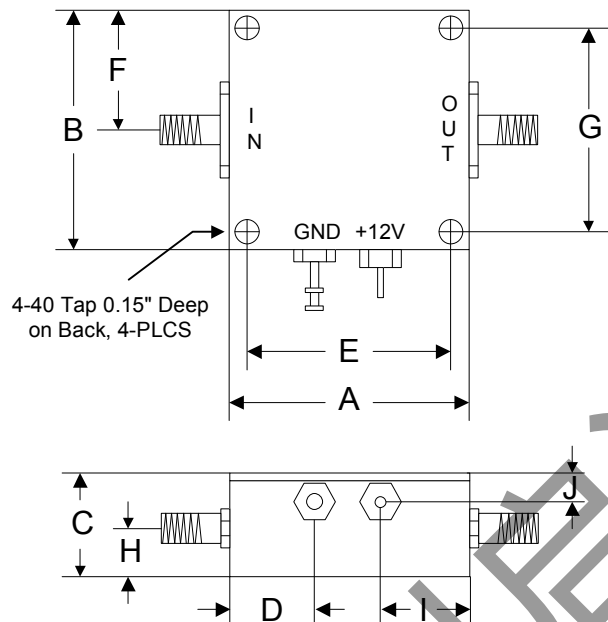
## BNA Series

## 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
<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