

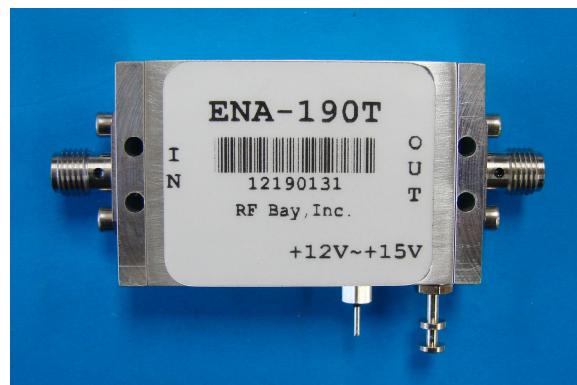
## ENA Series

## 10 – 1500MHz Low Noise Amplifier

### Features

- Frequency Range: 10-1500MHz
- Gain: 40dB
- $P_{1dB}$ : +26dBm
- OIP3: +40dBm
- Noise Figure: 1.2dB (typ.)
- DC Power: 12V or 15V @ 290mA
- Internally Voltage Regulated
- SMA-female

### Photo



### Description

ENA-190T is a high dynamic range Low Noise Amplifier, with frequency range of 10 to 1500MHz.

### Electrical Specifications @+25 °C, $Z_{in}=Z_{out}=50 \Omega$ , DC Supply = +12VDC

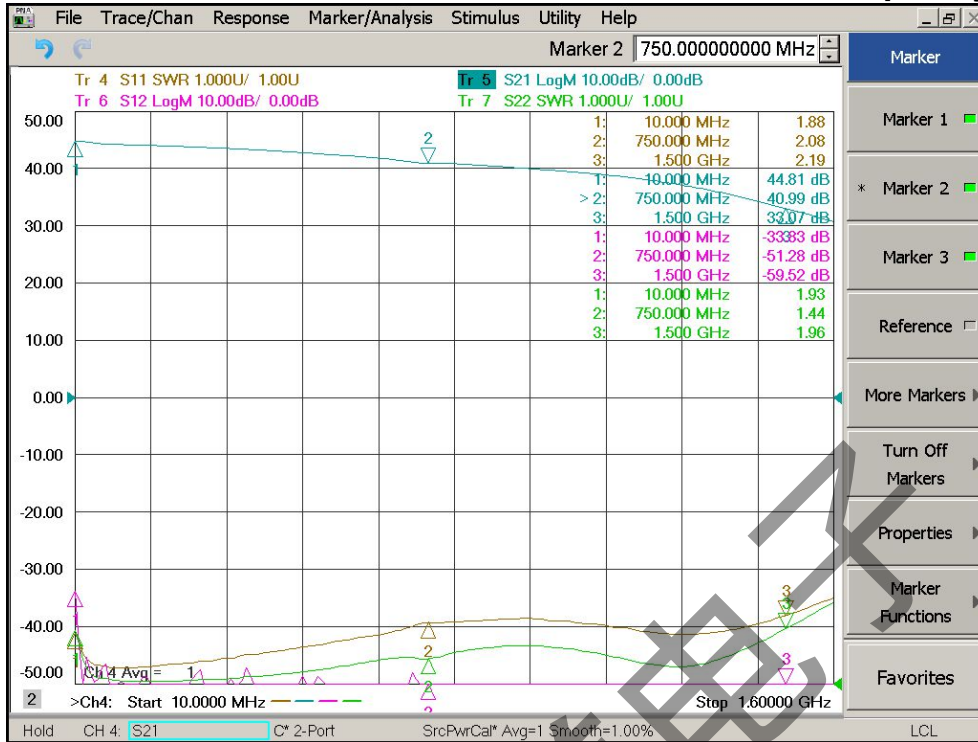
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		1500
Gain S21	f = 10MHz	43.0	44.5	
	f = 750MHz	39.5	41.0	
	f = 1500MHz	31.5	33.0	
Gain Flatness	dB		±6.0	±7.0
Output Power $P_{1dB}$	f = 750MHz	+25	+26	
Saturated Output Power $P_{Sat}$	f = 750MHz	+28	+29	
Output Third Order Intercept IP3	f = 750MHz	+38	+40	
Noise Figure	f = 750MHz		1.2	1.5
Reverse Isolation S12	f = 750MHz	-45	-50	
Input VSWR S11	f = 750MHz		2.0:1	2.5:1
Output VSWR S22	f = 750MHz		1.5:1	2.0:1
DC Power Supply - voltage	V	11	12	15
DC Power Supply - current	mA		290	340

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

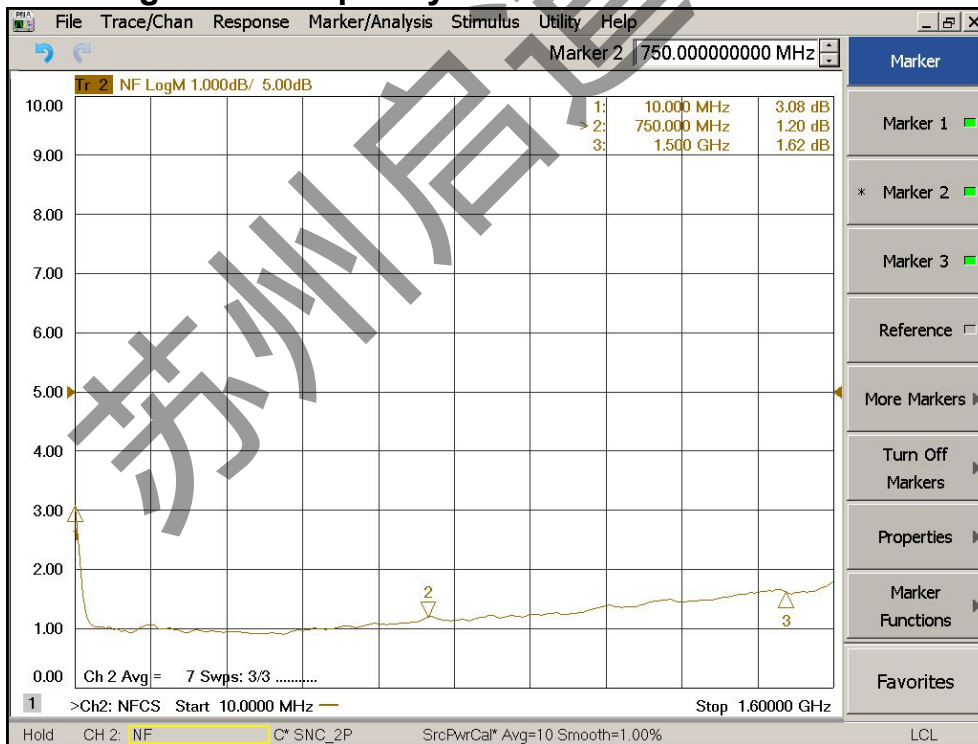
**ENA Series**

**10 – 1500MHz Low Noise Amplifier**

**Gain S21, Isolation S12, Return Loss S11, S22 vs Frequency**



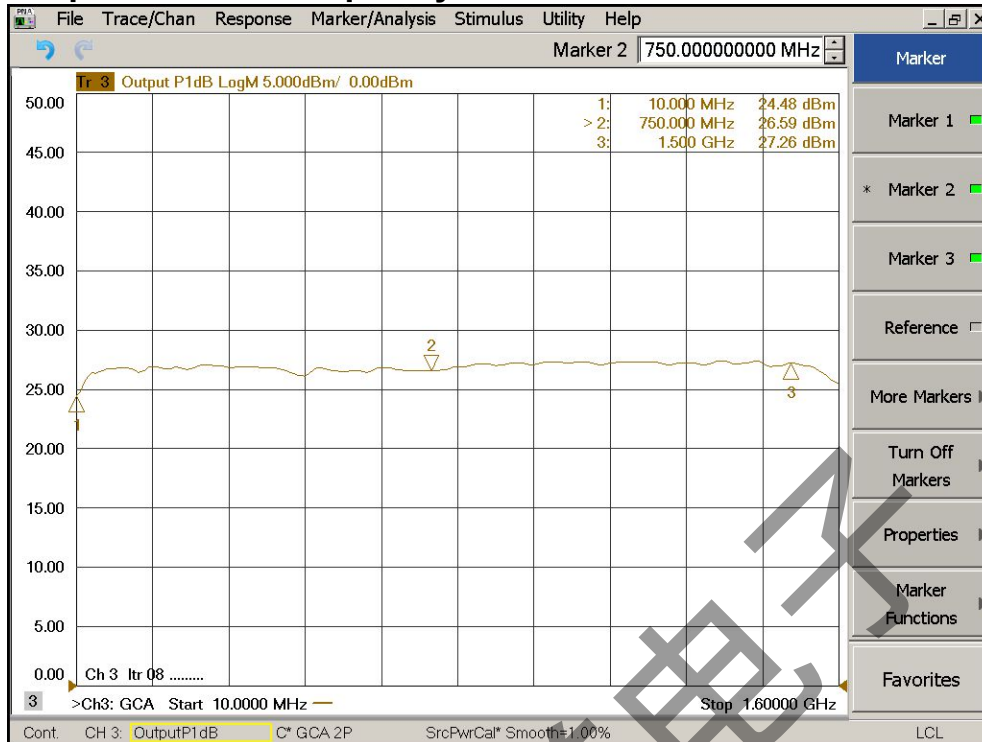
**Noise Figure vs Frequency**



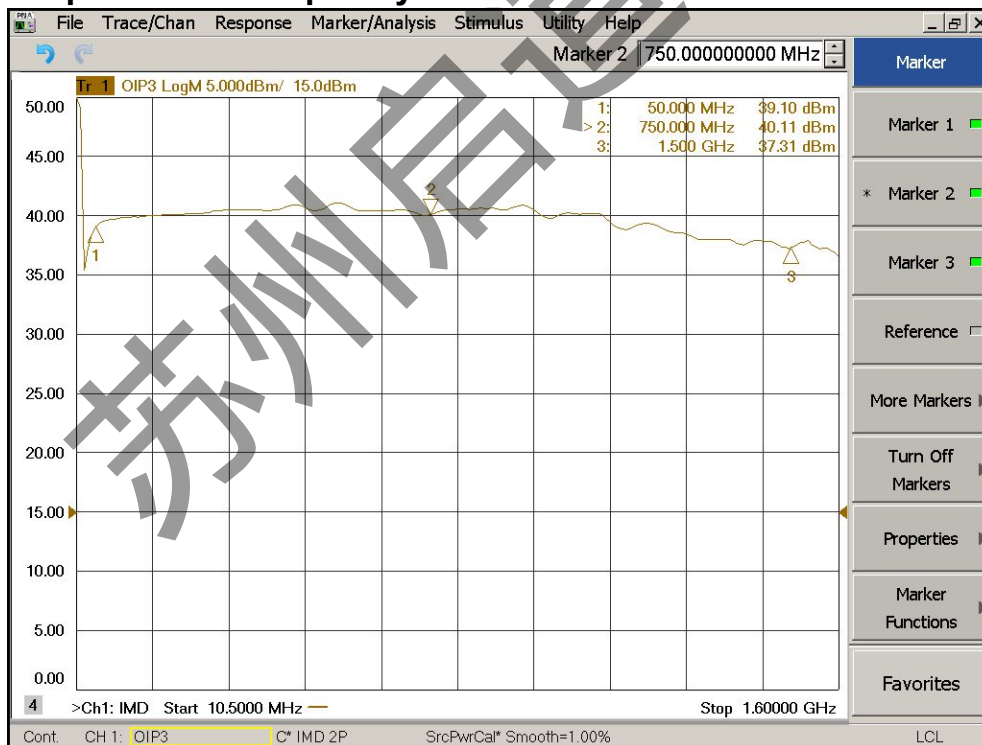
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### Output P1dB vs Frequency



### Output IP3 vs Frequency



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### Absolute Maximum Ratings

Parameter	Absolute Maximum
Supply Voltage	+20V
RF Input Power	+15dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

### ESD Sensitive Material



### Outline

