

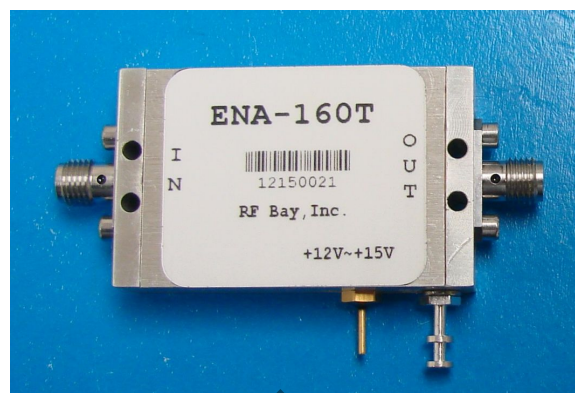
## ENA Series

## 10 – 800MHz Low Noise Amplifier

### Features

- Frequency Range: 10-800MHz
- Gain: 60dB
- P<sub>1dB</sub>: +19dBm
- OIP3: +33dBm
- Noise Figure: 2.1dB (typ.)
- DC Power: 12V to 15V @ 160mA
- SMA-female

### Photo



### Description

ENA-160T is a high gain Low Noise Amplifier, with frequency range of 10 to 800MHz.

### Electrical Specifications @+25 °C, Z<sub>in</sub>=Z<sub>out</sub>=50 Ω, DC Supply = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		800
Gain S <sub>21</sub>	f = 10MHz	dB	58.0	59.5
	f = 400MHz	dB	58.5	60.0
	f = 800MHz	dB	56.0	57.5
Gain Flatness	dB		±1.5	±2.0
Output Power P <sub>1dB</sub>	f = 400MHz	dBm	+15	+17
Saturated Output Power P <sub>Sat</sub>	f = 400MHz	dBm	+17	+19
Output Third Order Intercept IP <sub>3</sub>	f = 400MHz	dBm	+25	+27
Noise Figure	f = 400MHz	dB	2.1	3.0
Reverse Isolation S <sub>12</sub>	f = 400MHz	dB	-50	-60
Input VSWR S <sub>11</sub>	f = 400MHz		2.0:1	2.5:1
Output VSWR S <sub>22</sub>	f = 400MHz		1.5:1	2.0:1
DC Power Supply - voltage	V	11	12	15
DC Power Supply - current	mA		160	180
Operating Temperature	°C	-40		+85
Size (RF/DC feedthrough excluded)	Inch	1.79 (L) x 1.10 (W) x 0.45 (H)		
Weight	Oz	1.4		

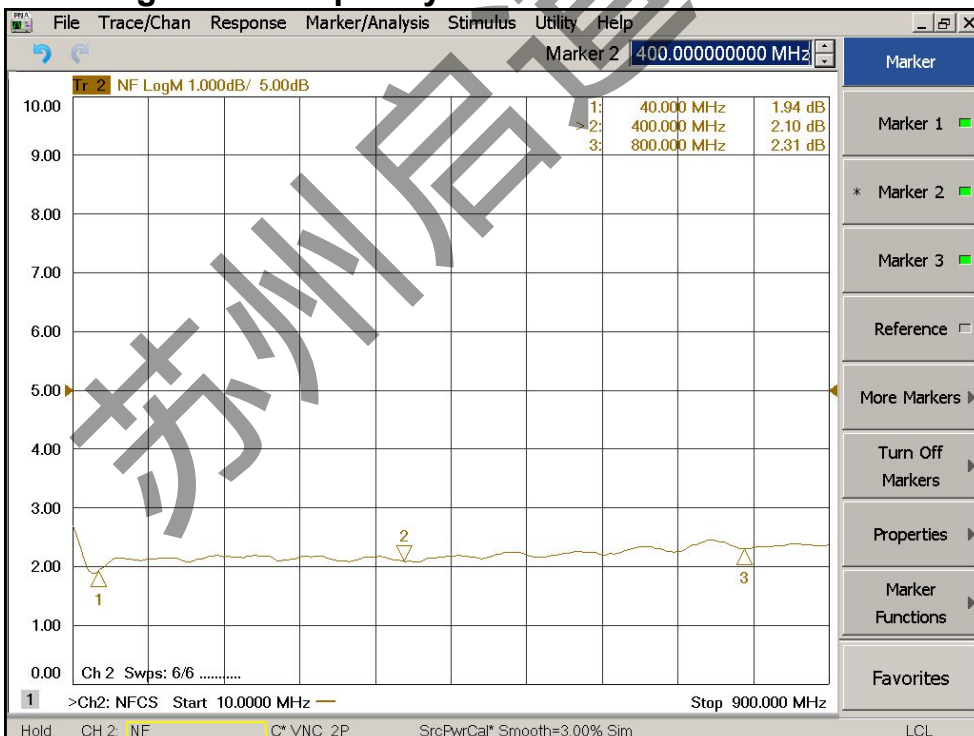
**ENA Series**

**10 – 800MHz Low Noise Amplifier**

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



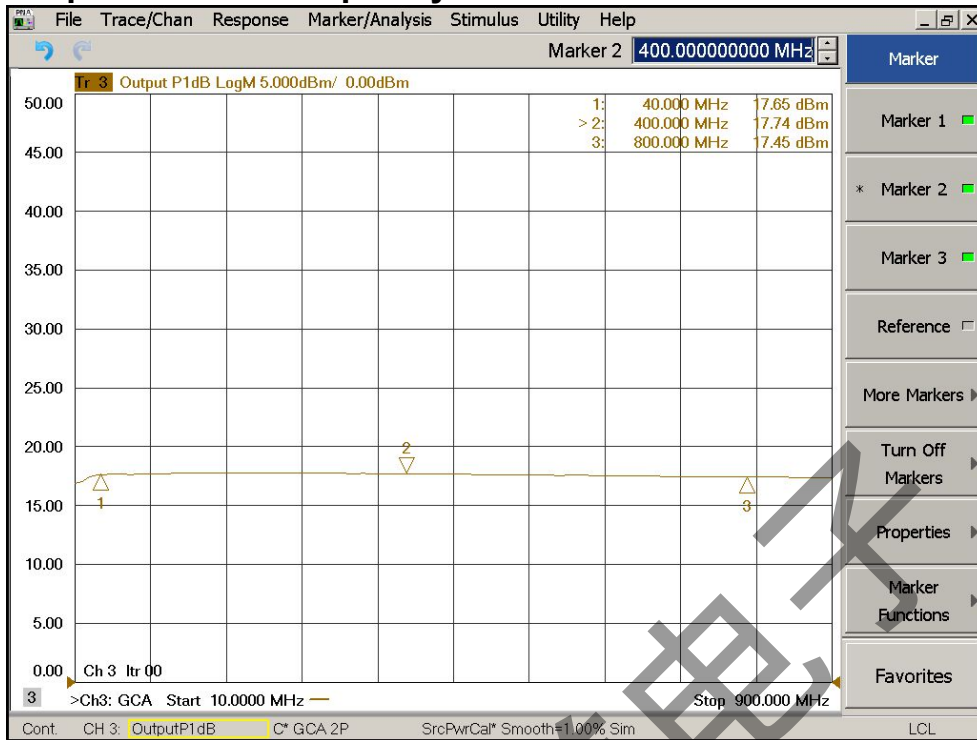
**Noise Figure vs Frequency**



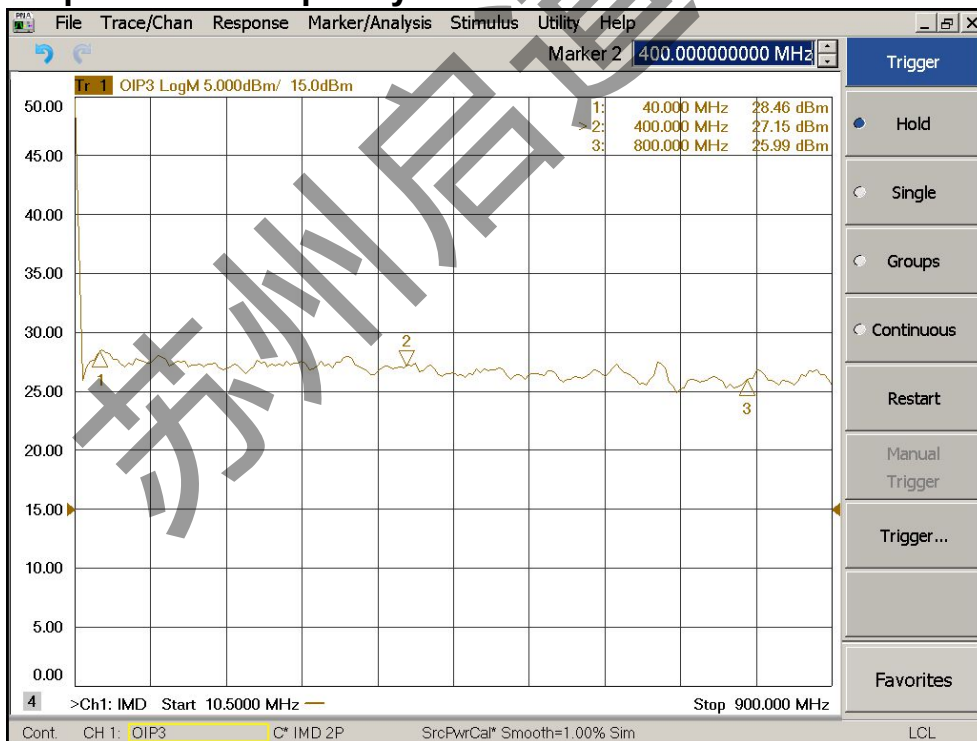
**ENA Series**

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**Output P1dB vs Frequency**



**Output IP3 vs Frequency**



## ENA Series

## 10 – 800MHz Low Noise Amplifier

### Absolute Maximum Ratings

Parameter	Absolute Maximum
Supply Voltage	+20V
RF Input Power	13dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

### ESD Sensitive Material



### Outline

