

## ENA Series

## 100 – 2000MHz Low Noise Amplifier

### Features

- Frequency Range: 100-2000MHz
- Gain: 60dB
- $P_{1dB}$ : +19dBm
- OIP3: +33dBm
- Noise Figure: 2.5dB (typ.)
- DC Power: 12V to 15V @ 170mA
- SMA-female

### Description

ENA-200T is a high performance Low Noise (& Driver) Amplifier, with standard frequency range of 100 to 2000MHz.

### Photo



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

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	100		2000
Gain S <sub>21</sub>	f = 100MHz	dB	61.5	
	f = 1000MHz	dB	61.0	
	f = 2000MHz	dB	59.5	
Gain Flatness	f = 1000MHz	dB	±1.0	±1.5
Output Power $P_{1dB}$	f = 1000MHz	dBm	+19	
Saturated Output Power $P_{Sat}$	f = 1000MHz	dBm	+21	
Output Third Order Intercept IP <sub>3</sub>	f = 1000MHz	dBm	+33	
Noise Figure	f = 1000MHz	dB	2.5	3.5
Reverse Isolation S <sub>12</sub>	f = 1000MHz	dB	-60	
Input VSWR S <sub>11</sub>	f = 1000MHz		2.5:1	3.0:1
Output VSWR S <sub>22</sub>	f = 1000MHz		1.5:1	2.0:1
DC Power Supply - voltage	V	11	12	15
DC Power Supply - current	mA		170	190
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		

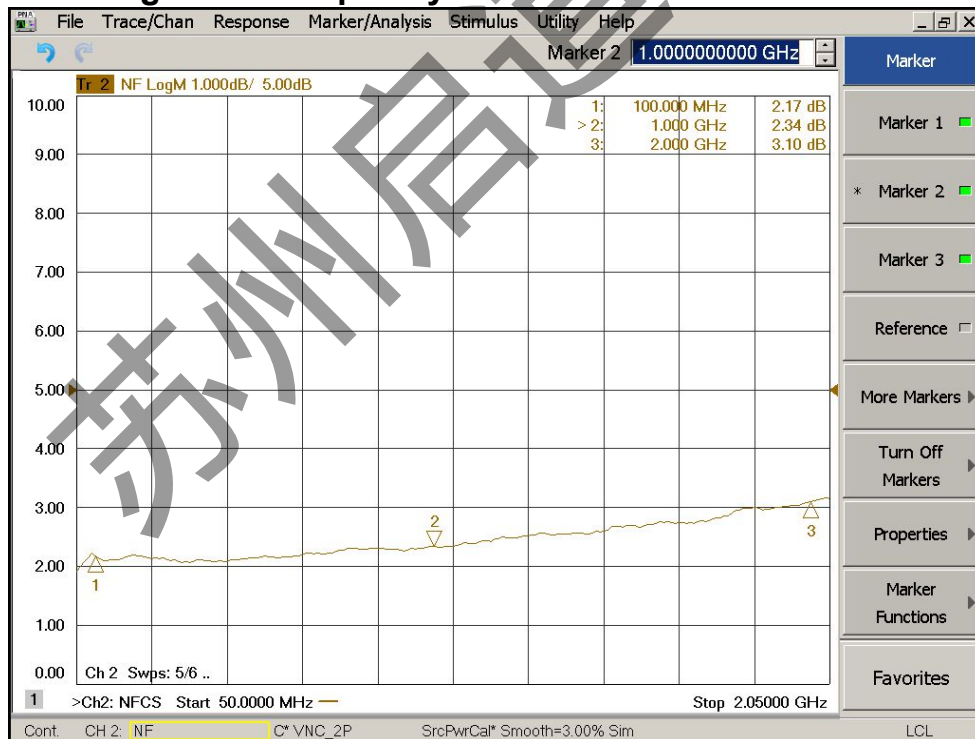
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**Gain S21, Isolation S12, Return Loss S11, S22 vs Frequency**



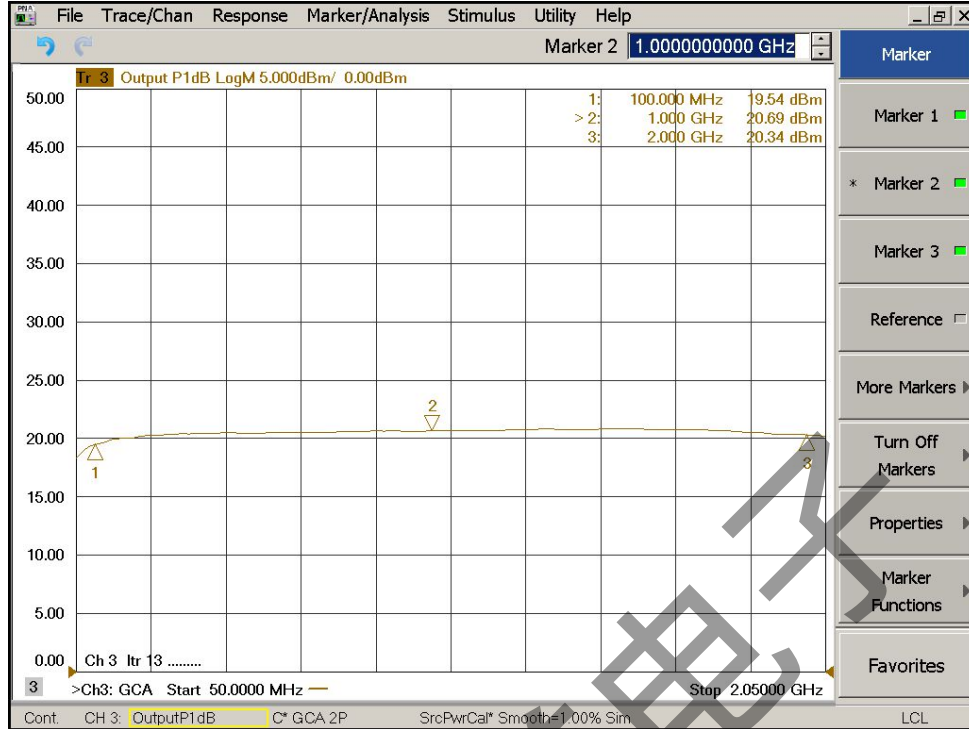
**Noise Figure vs Frequency**



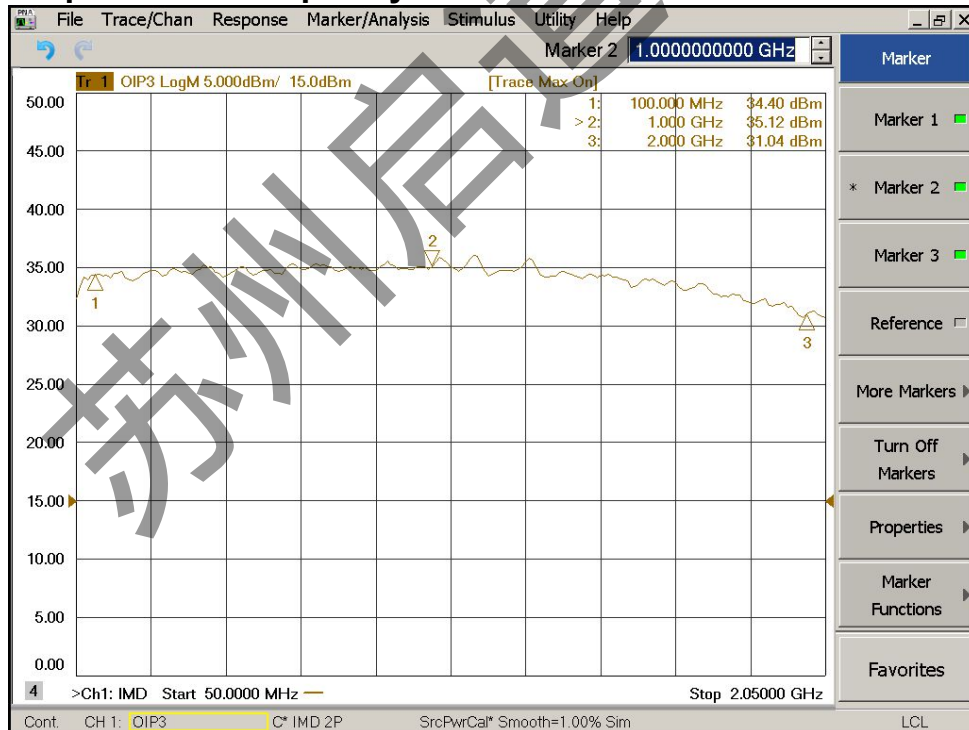
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**Output P1dB vs Frequency**



**Output IP3 vs Frequency**



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### Absolute Maximum Ratings

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

### ESD Sensitive Material



### Outline

