

## ENA Series

## 10 – 10000MHz Low Noise Amplifier

### Features

- Frequency Range: 10-10000MHz
- Gain: 35dB
- P<sub>1dB</sub>: +15dBm
- OIP3: +26dBm
- Noise Figure: 3.2dB (typ.)
- DC Power: 12V @ 200mA
- Internally Voltage Regulated
- SMA-female

### Photo



### Description

ENA-380T is a wideband high gain Low Noise Amplifier, with frequency range of 10 to 10000MHz.

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

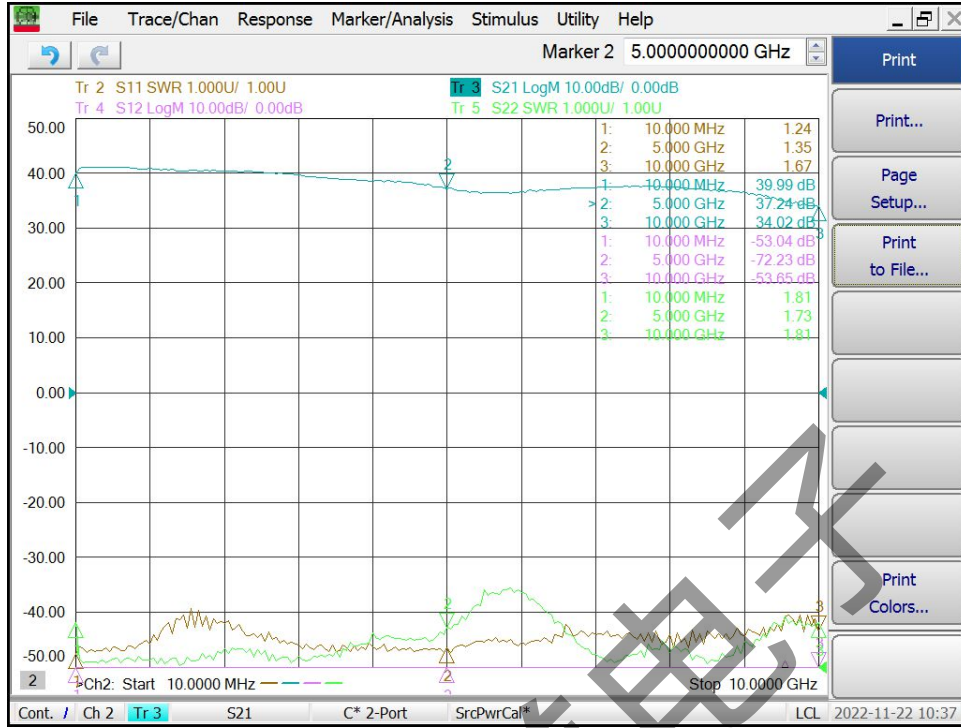
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		10000
Gain S <sub>21</sub>	f = 10MHz		40	
	f = 5000MHz	35	37	
	f = 10000MHz		34	
Gain Flatness	dB		±3.0	±4.0
Output Power P <sub>1dB</sub>	f = 5000MHz	+14	+15	
Output Third Order Intercept IP3	f = 5000MHz	+24	+26	
Noise Figure	f = 5000MHz		3.2	4.0
Reverse Isolation S <sub>12</sub>	f = 5000MHz	-50	-60	
Input VSWR S <sub>11</sub>	f = 5000MHz		1.4:1	2.0:1
Output VSWR S <sub>22</sub>	f = 5000MHz		1.8:1	2.2:1
DC Power Supply - Voltage	V	9	12	15
DC Power Supply - Current	mA		200	250

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

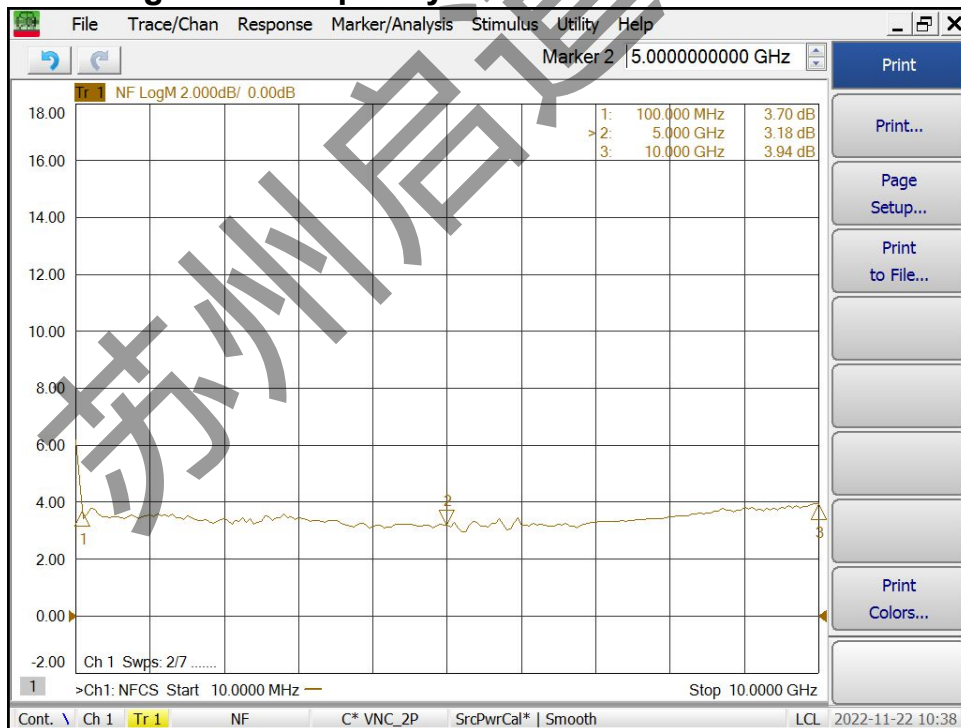
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**Gain S21, Isolation S12, Return Loss S11, S22 vs Frequency**



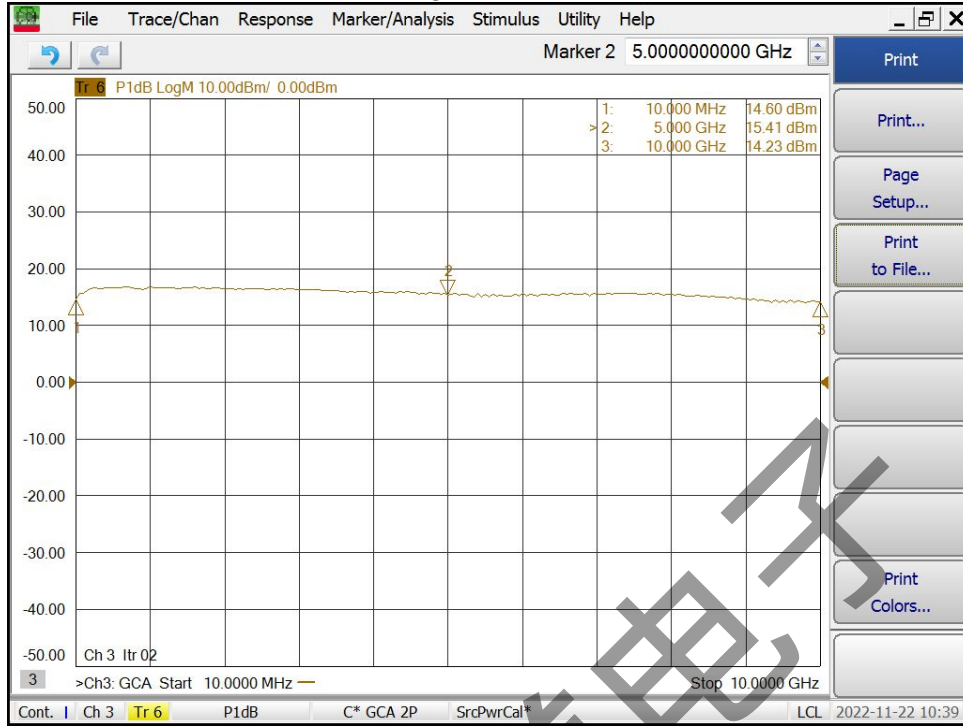
**Noise Figure vs Frequency**



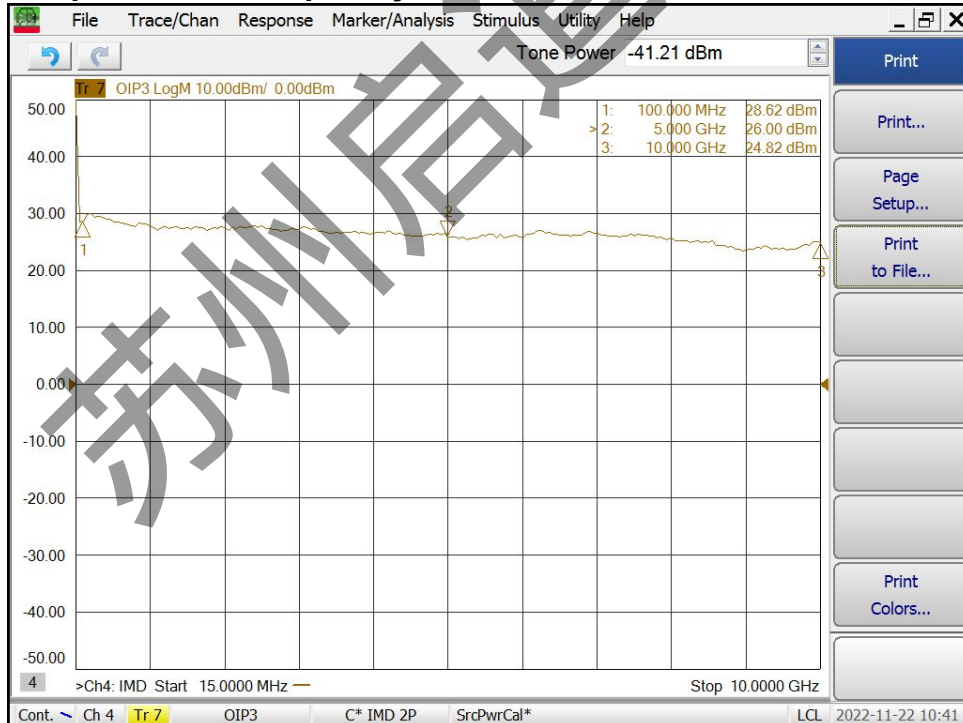
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### Output P1dB vs Frequency



### Output IP3 vs Frequency



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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	0dBm
DC Supply Voltage	+20V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

### ESD Sensitive Material



### Outline

Unit: Inch [mm]

