

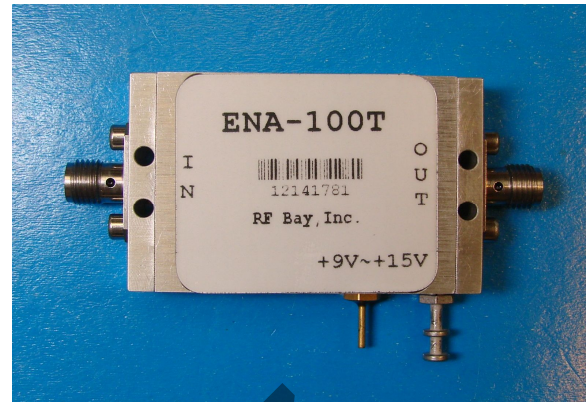
## ENA Series

## 10 – 600MHz Low Noise Amplifier

### Features

- Frequency Range: 10-600MHz
- Gain: 40dB
- P<sub>1dB</sub>: +19dBm
- OIP3: +34dBm
- Noise Figure: 0.9dB (typ.)
- DC Power: +9V to +15V@140mA
- SMA Connector

### Photo



### Description

ENA-100T is a high performance Low Noise (& Driver) Amplifier, with standard frequency range of 10 to 600MHz.

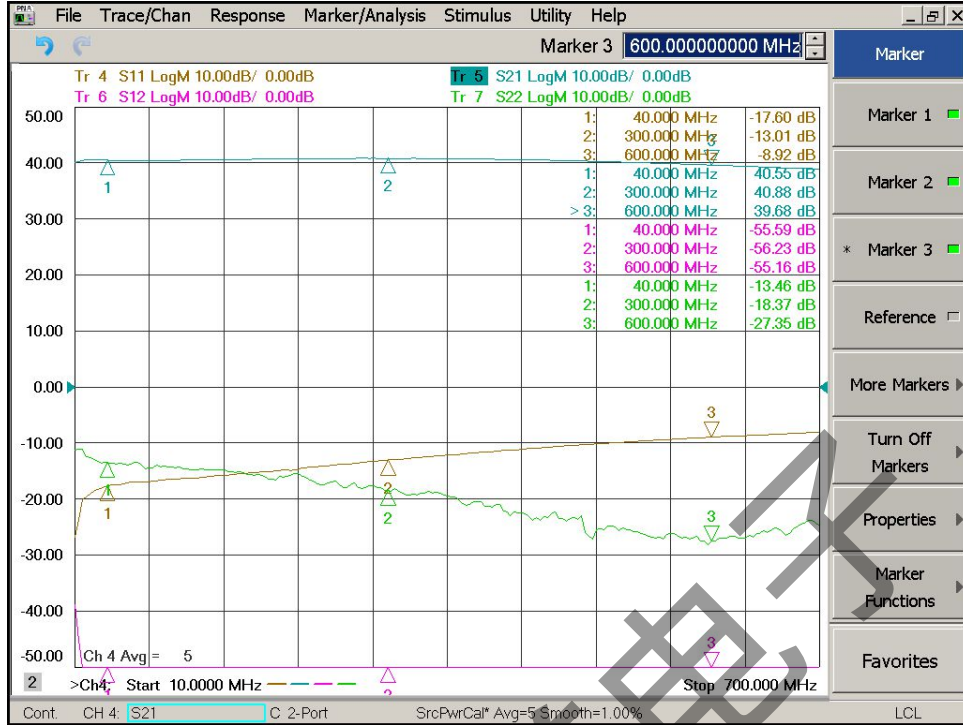
### Electrical Specifications @+25 °C, Z<sub>in</sub>=Z<sub>out</sub>=50 Ω, DC Supply = +12VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	10		600
Gain S <sub>21</sub>	f = 10MHz	39.0	40.0	
	f = 300MHz	39.5	40.5	
	f = 600MHz	38.5	39.5	
Gain Flatness	dB		±0.8	±1.2
Gain Variation Over Temperature	dB/°C		0.02	0.03
Output Power P <sub>1dB</sub>	dBm	+17	+19	
Saturated Output Power P <sub>Sat</sub>	dBm	+18	+20	
Output Third Order Intercept IP <sub>3</sub>	dBm	+31	+34	
Noise Figure	f = 300MHz dB		0.9	1.1
Reverse Isolation S <sub>12</sub>	f = 300MHz dB	-50	-55	
Input VSWR S <sub>11</sub>	f = 300MHz		1.6:1	2.0:1
Output VSWR S <sub>22</sub>	f = 300MHz		1.3:1	2.0:1
DC Power Supply - voltage	V	9	12	15
DC Power Supply - current	mA		140	160
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		

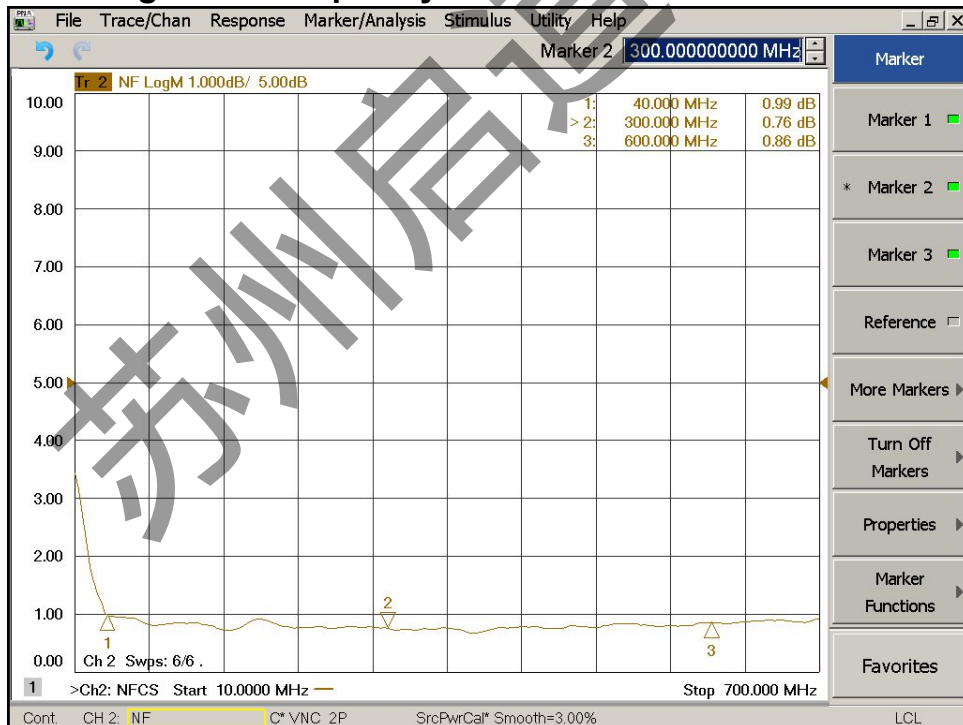
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**Gain S21, Isolation S12, Return Loss S11, S22 vs Frequency**



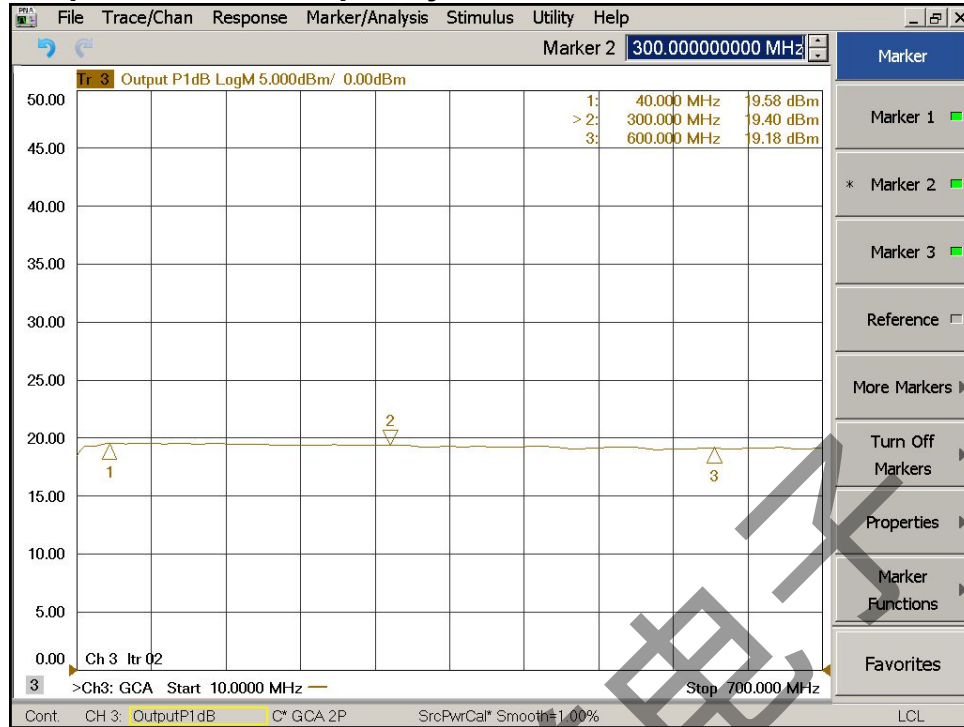
**Noise Figure vs Frequency**



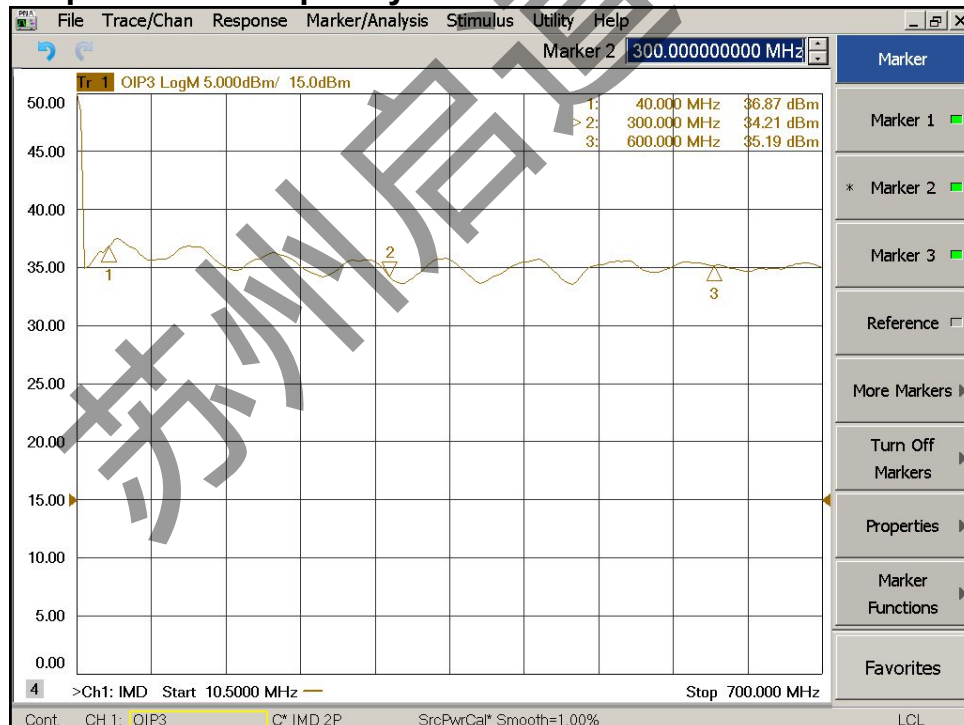
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### Output P1dB vs Frequency



### Output IP3 vs Frequency



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### Absolute Maximum Ratings

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

### ESD Sensitive Material



### Outline

