

## ENA Series

## 20 – 6000MHz Low Noise Amplifier

### Features

- Frequency Range: 20-6000MHz
- Gain: 57dB
- P<sub>1dB</sub>: +18dBm
- OIP3: +30dBm
- Noise Figure: 2.0dB (typ.)
- DC Power: 12V @ 250mA
- Internally Voltage Regulated
- SMA-female

### Photo



### Description

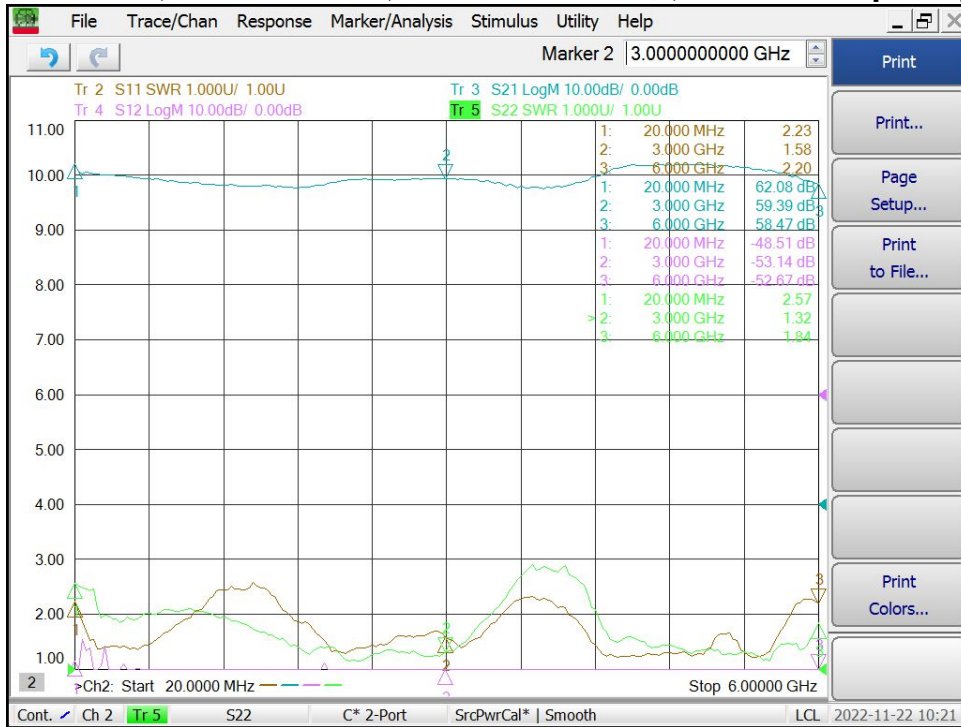
ENA-360T is a high gain Low Noise Amplifier, with frequency range of 20 to 6000MHz.

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

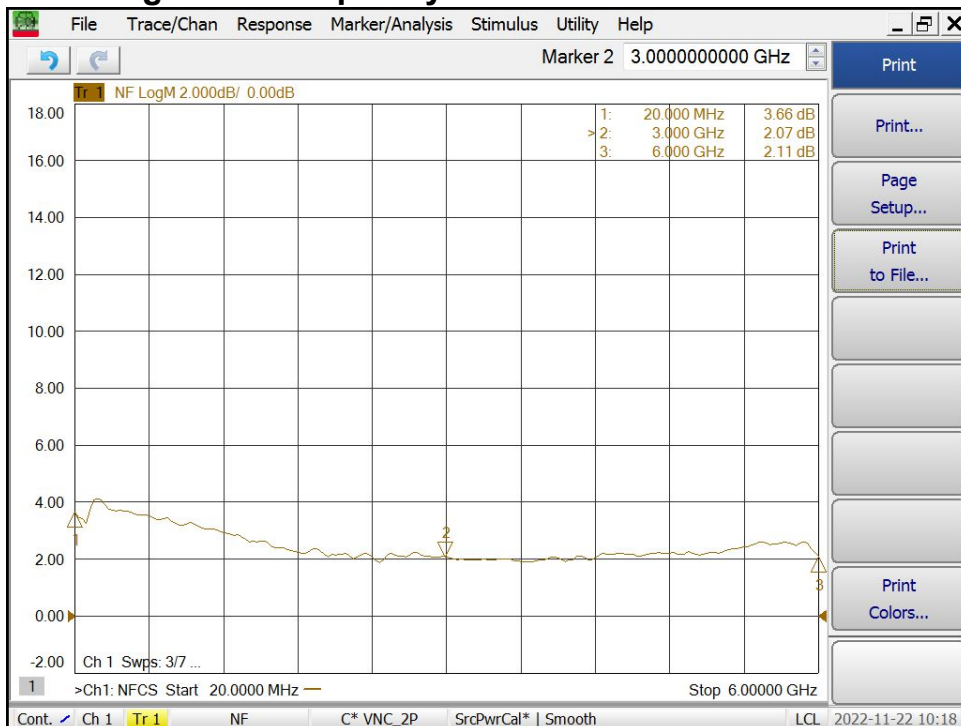
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	20		6000
Gain S <sub>21</sub>	f = 20MHz		60	
	f = 3000MHz	57	59	
	f = 6000MHz		58	
Gain Flatness	dB		±2.0	±3.0
Output Power P <sub>1dB</sub>	f = 3000MHz	+17	+18	
Output Third Order Intercept IP3	f = 3000MHz	+28	+30	
Noise Figure	f = 3000MHz		2.0	3.0
Reverse Isolation S <sub>12</sub>	f = 3000MHz	-45	-53	
Input VSWR S <sub>11</sub>	f = 3000MHz		1.5:1	2.0:1
Output VSWR S <sub>22</sub>	f = 3000MHz		1.5:1	2.0:1
DC Power Supply - Voltage	V	9	12	15
DC Power Supply - Current	mA		250	300

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

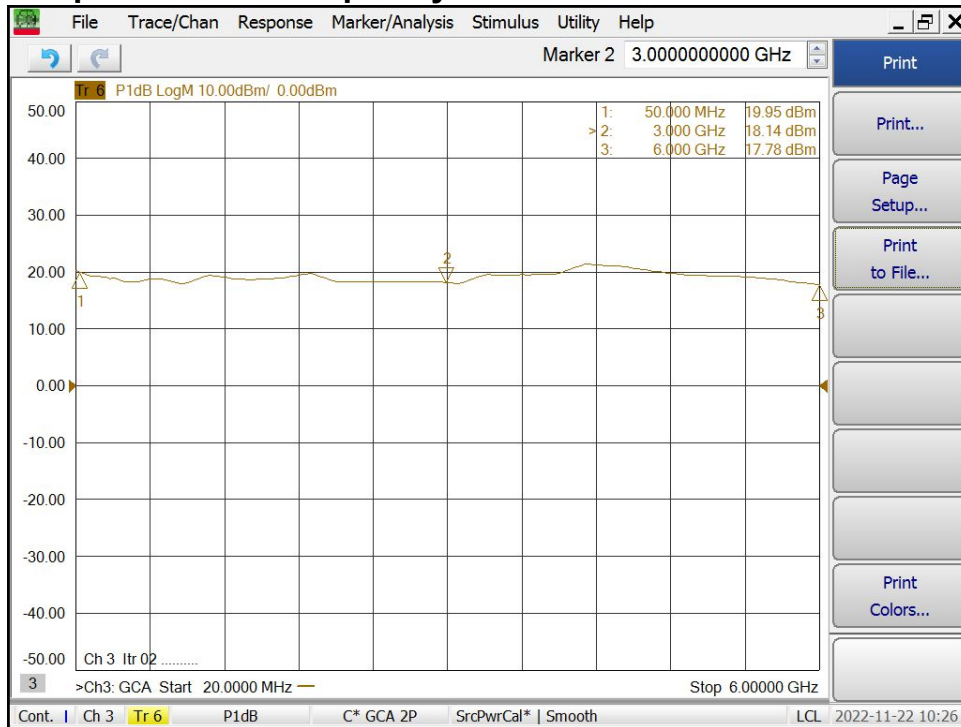
**Gain S21, Isolation S12, Return Loss S11, S22 vs Frequency**



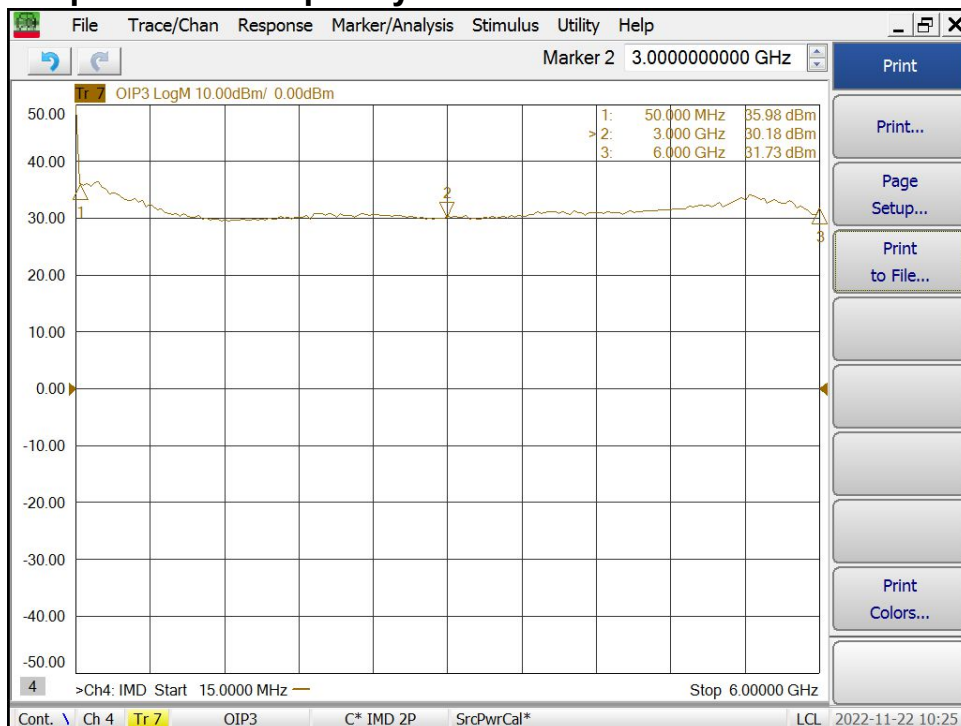
**Noise Figure vs Frequency**



**Output P1dB vs Frequency**



**Output IP3 vs Frequency**



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## 20 – 6000MHz Low Noise Amplifier

### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	-3dBm
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]

