RF BAY
www.rfbayinc.com

ENA-340T

ENA Series — 10 – 6000MHz Low Noise Amplifier

Features

- Frequency Range: 10-6000MHz
- Gain: 37dB
- P_{1dB}: +23dBm
- OIP3: +38dBm
- Noise Figure: 2.0dB (typ.)
- DC Power: 12V @ 390mA
- Internally Voltage Regulated
- SMA-female

Photo

Description

ENA-340T is a high dynamic range Low Noise Amplifier, with frequency range of 10 to 6000MHz.

Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ω, DC Supply = +12VDC

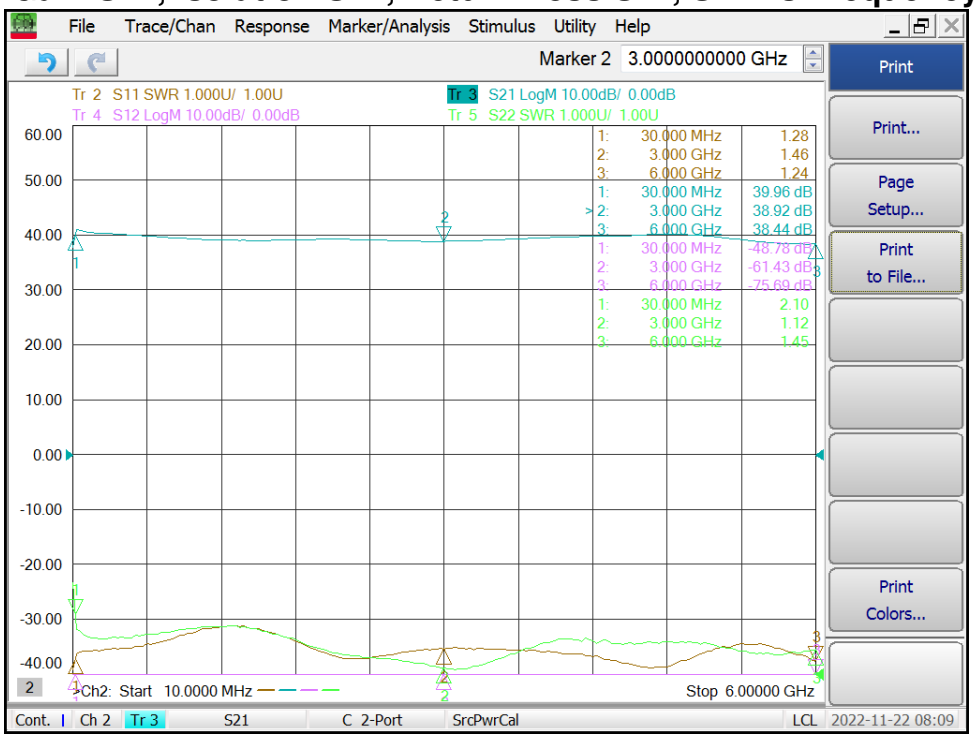
Parameter		Unit	Minimum	Typical	Maximum
Frequency Range		MHz	10		6000
Gain S21	f = 10MHz	dB		40	
	f = 3000MHz	dB	37	39	
	f = 6000MHz	dB		38	
Gain Flatness		dB		±0.8	±1.5
Output Power P_{1dB}	f = 3000MHz	dBm	+22	+23	
Output Third Order Intercept IP3	f = 3000MHz	dBm	+36	+38	
Noise Figure	f = 3000MHz	dB		2.0	3.0
Reverse Isolation S12	f = 3000MHz	dB	-50	-60	
Input VSWR S11	f = 3000MHz			1.5:1	2.0:1
Output VSWR S22	f = 3000MHz			1.3:1	1.8:1
DC Power Supply - Voltage		V	9	12	15
DC Power Supply - Current		mA		390	450

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

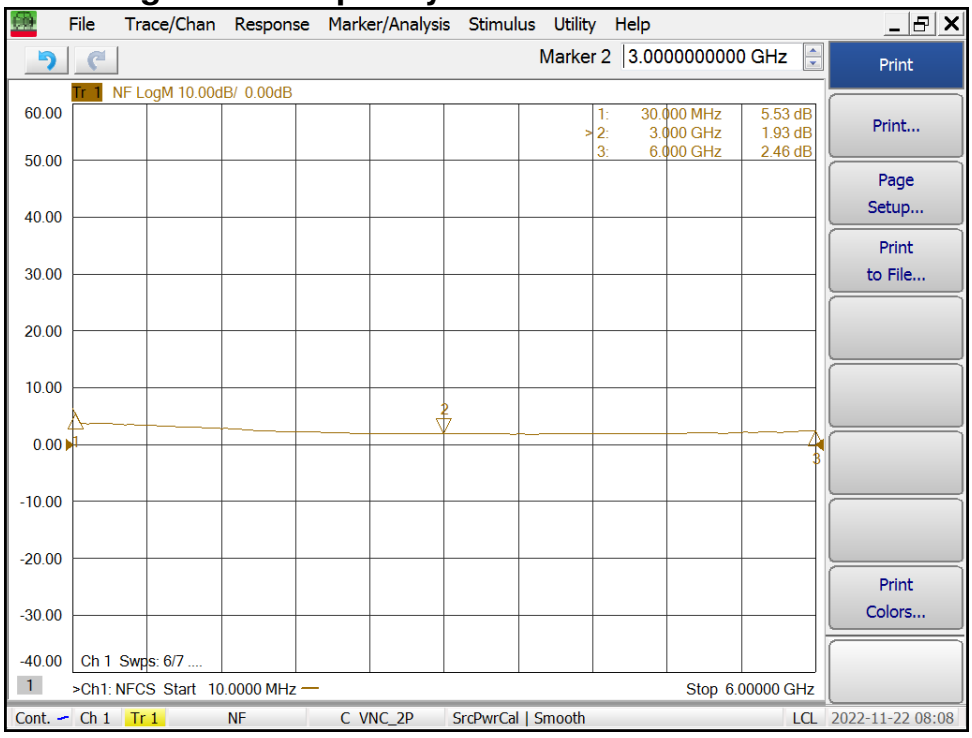
ENA Series

10 – 6000MHz Low Noise Amplifier

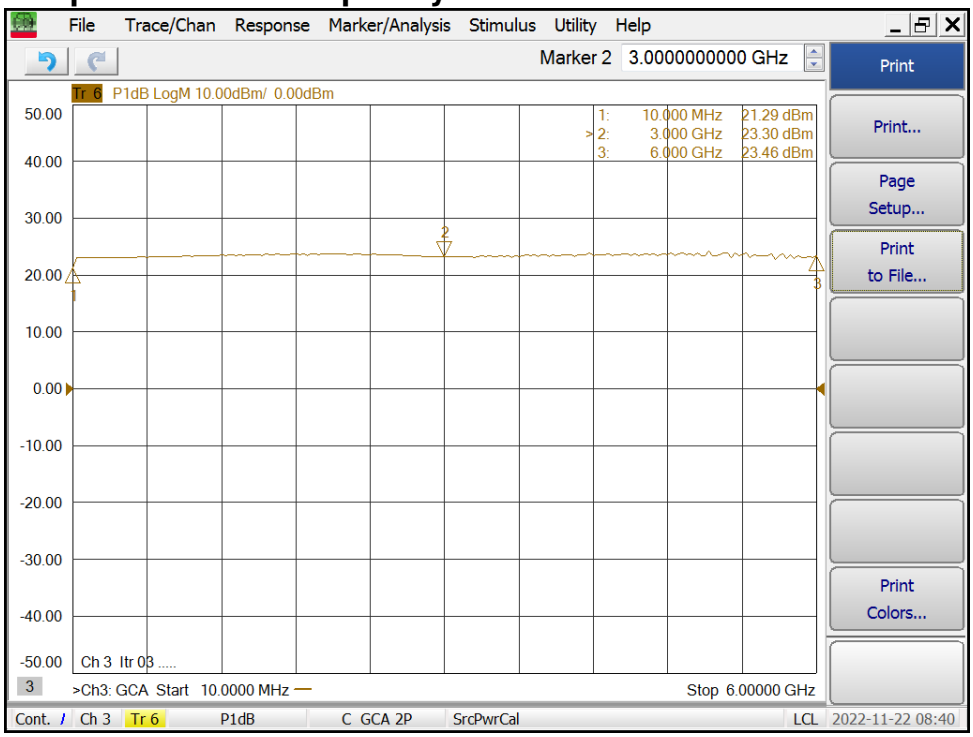
Gain S21, Isolation S12, Return Loss S11, S22 vs Frequency



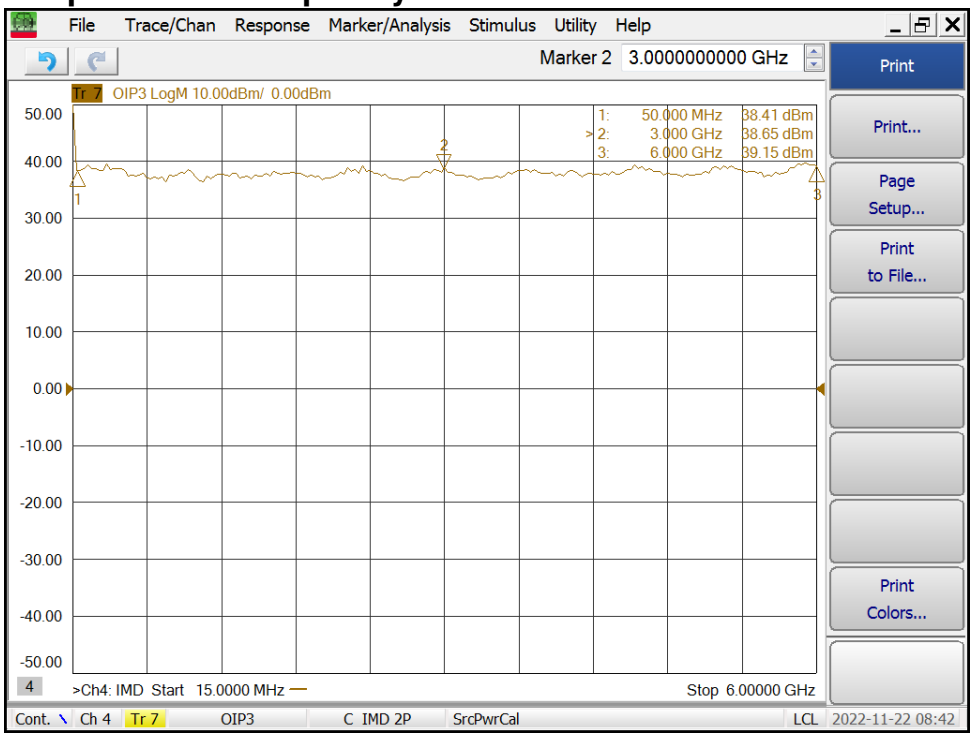
Noise Figure vs Frequency



Output P1dB vs Frequency



Output IP3 vs Frequency



ENA Series

10 – 6000MHz Low Noise Amplifier

Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+10dBm
DC Supply Voltage	+20V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

ESD Sensitive Material

RoHS (EU)/2015/863 COMPLIANT

CE

Outline

Unit: Inch [mm]