

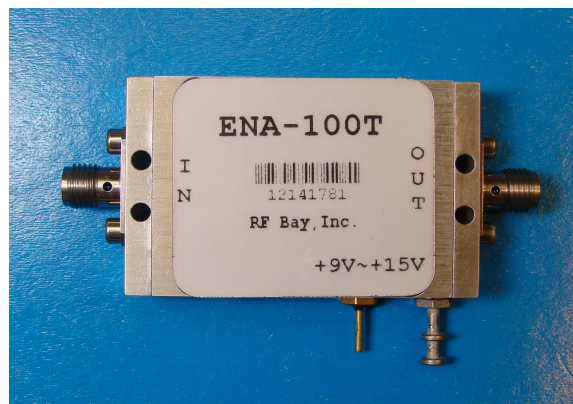
ENA Series

10 – 600MHz Low Noise Amplifier

Features

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

Photo



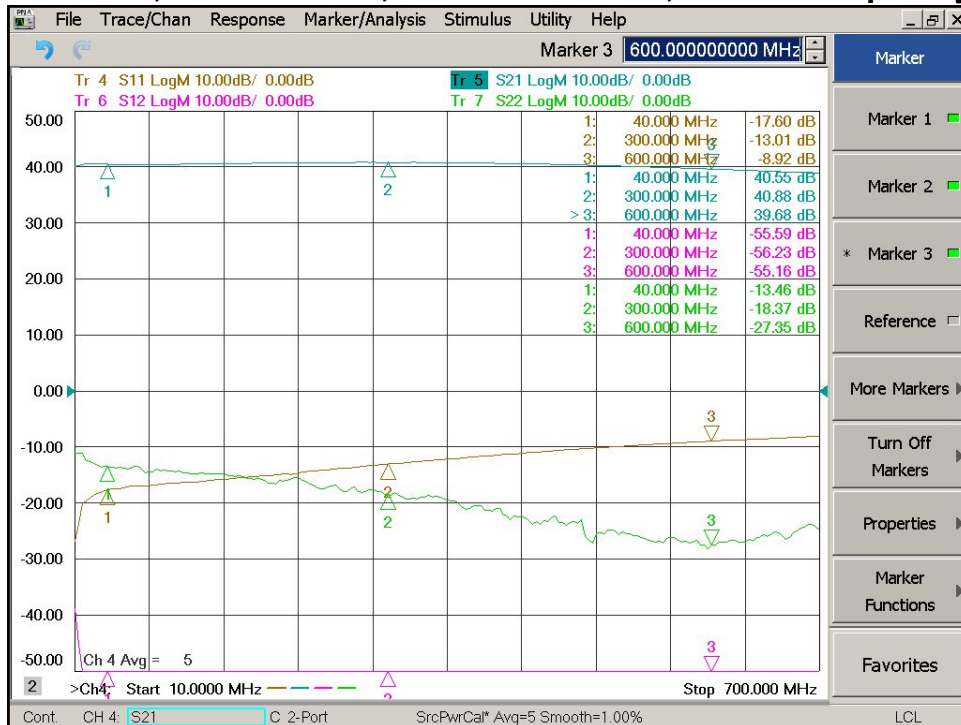
Description

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

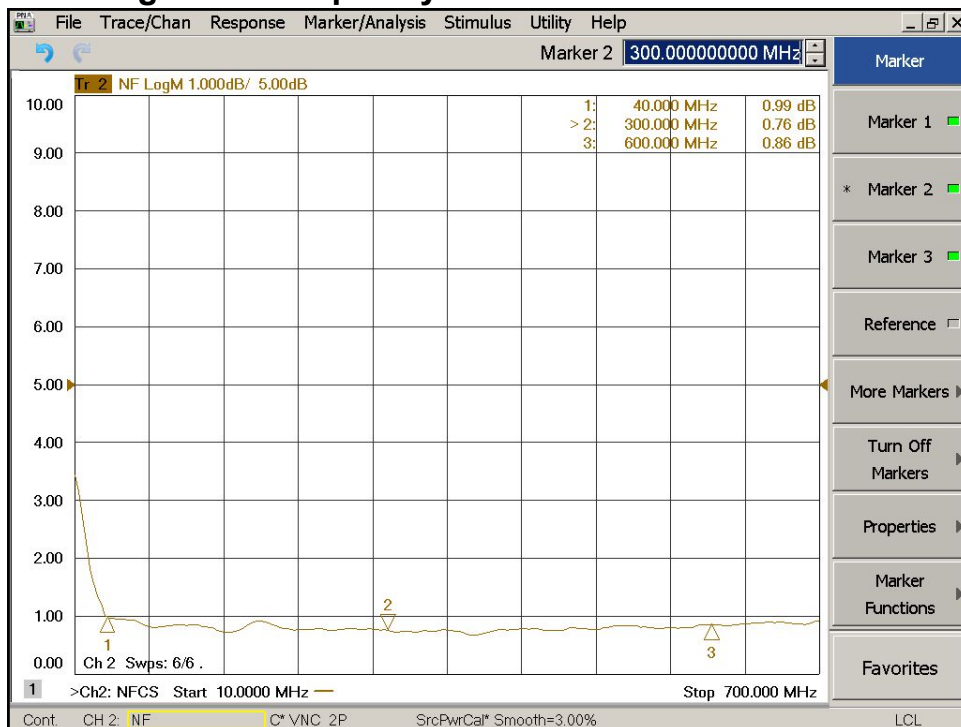
Electrical Specifications @+25 °C, Z_{in}=Z_{out}=50 Ω, DC Supply = +12VDC

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

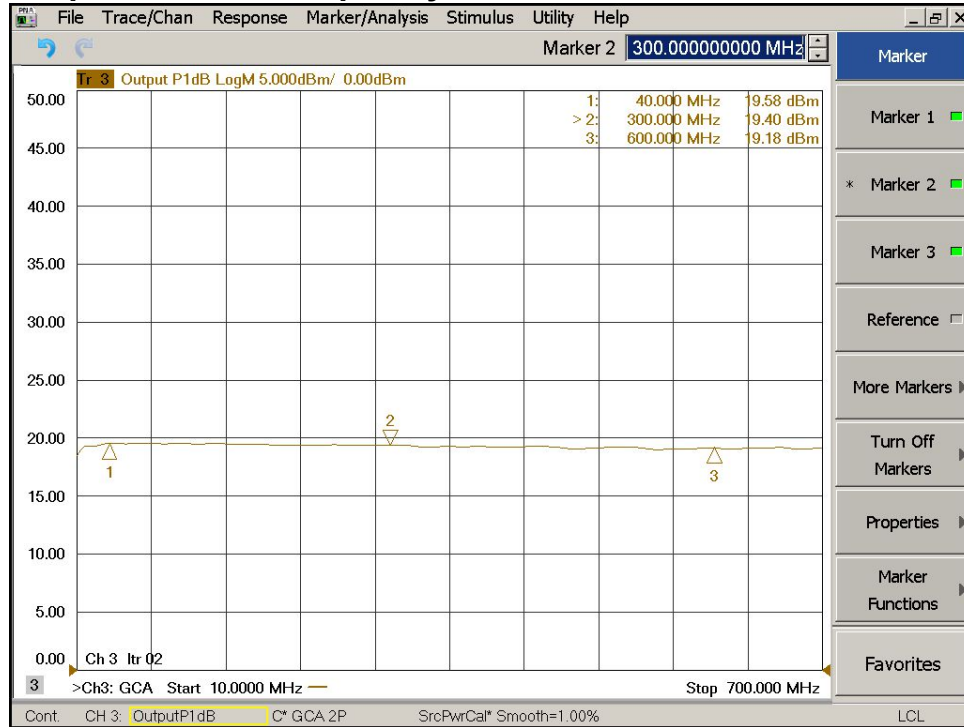
Gain S21, Isolation S12, Return Loss S11, S22 vs Frequency



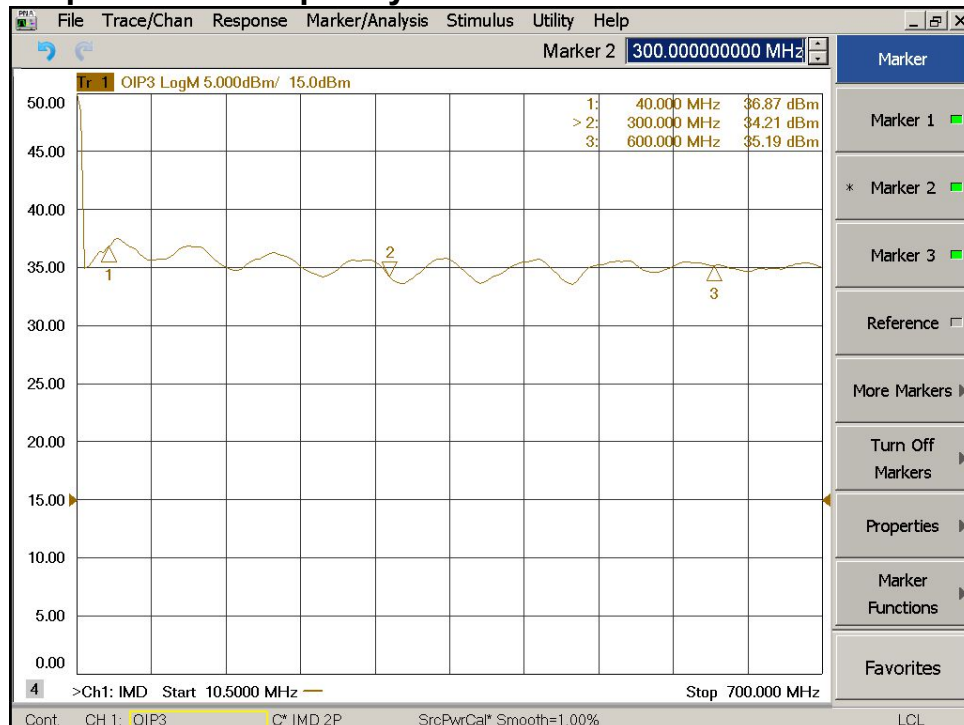
Noise Figure vs Frequency



Output P1dB vs Frequency



Output IP3 vs Frequency



ENA Series

10 – 600MHz Low Noise Amplifier

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

