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GNA-250F

GNA Series — 10MHz – 20GHz Low Noise Amplifier

Features

- Frequency Range: 0.01-20GHz
- Gain: 12dB
- P_{1dB}: +15dBm
- IP3: +26dBm
- Noise Figure: 3.0dB (typ.)
- DC Power: +5V @ 55mA
- RF Connector: SMA-F

Photo

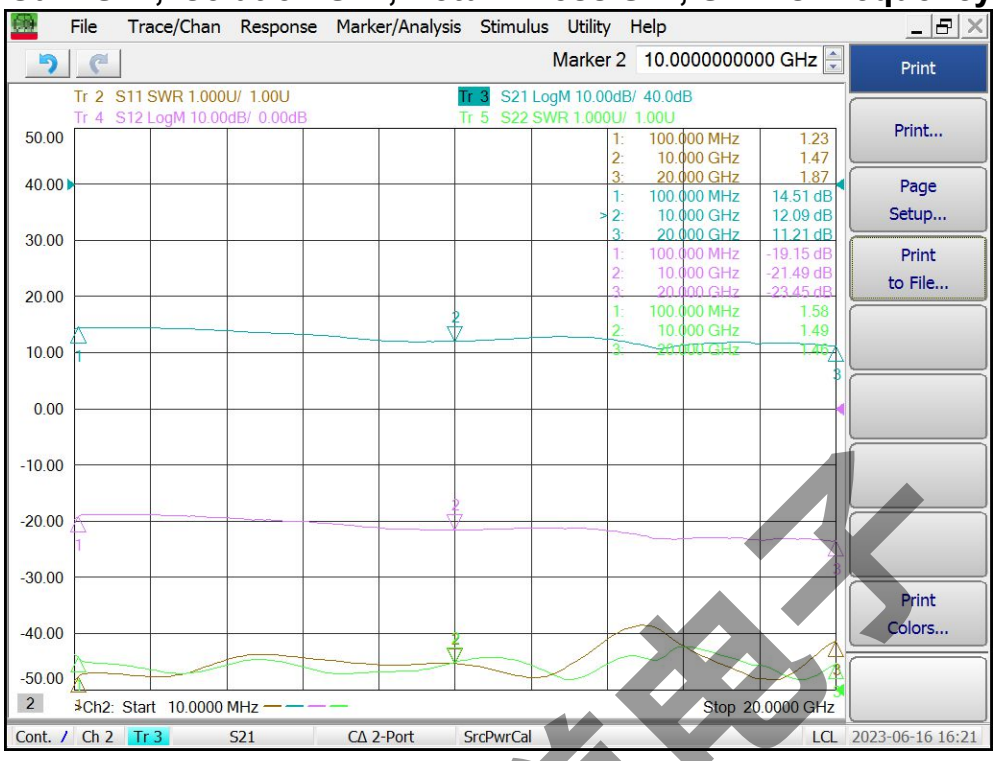
Description

GNA-250F is a high performance Microwave Low Noise Amplifier, with standard frequency range of 10MHz to 20GHz.

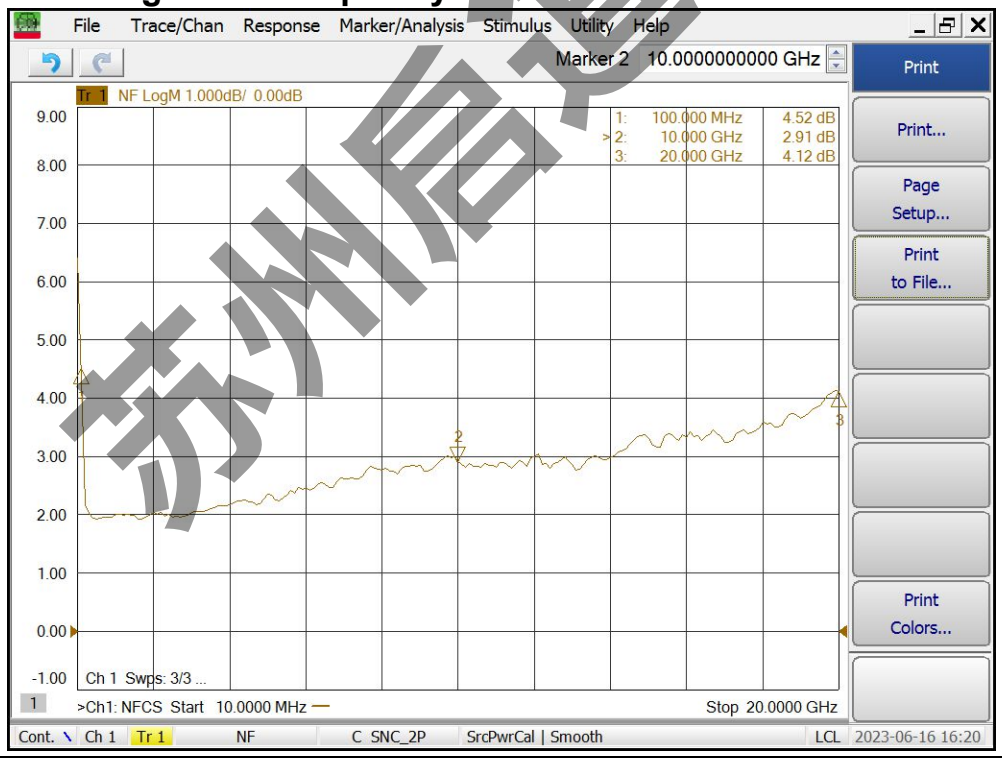
Electrical Specifications @+25°C, Z_{in}=Z_{out}=50 Ω, Vsupply = +5VDC

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	GHz	0.01		20
Gain (S21) f =10MHz	dB	13.0	14.5	
f = 10GHz	dB	10.5	12.0	
f = 20GHz	dB	9.5	11.0	
Gain Flatness	dB		±1.5	±2.0
Output Power P_{1dB} @ 10GHz	dBm	+13	+15	
Output Third Order IP3 @ 10GHz	dBm	+26	+29	
Noise Figure @ 10GHz	dB		3.0	4.0
Reverse Isolation (S12) @ 10GHz	dB	-15	-20	
VSWR-Input (S11) @ 10GHz			1.5:1	2.0:1
VSWR-Output (S22) @ 10GHz			1.5:1	2.0:1
DC Power Supply - Voltage	V	4.5	5	5.5
DC Power Supply - Current	mA		55	70
Operating Temperature	°C	-40		+85
Size (RF/DC feedthru's excluded)	Inch	1.00 (L) x 0.75 (W) x 0.45 (H)		
Weight	Oz	0.6 (17 grams)		

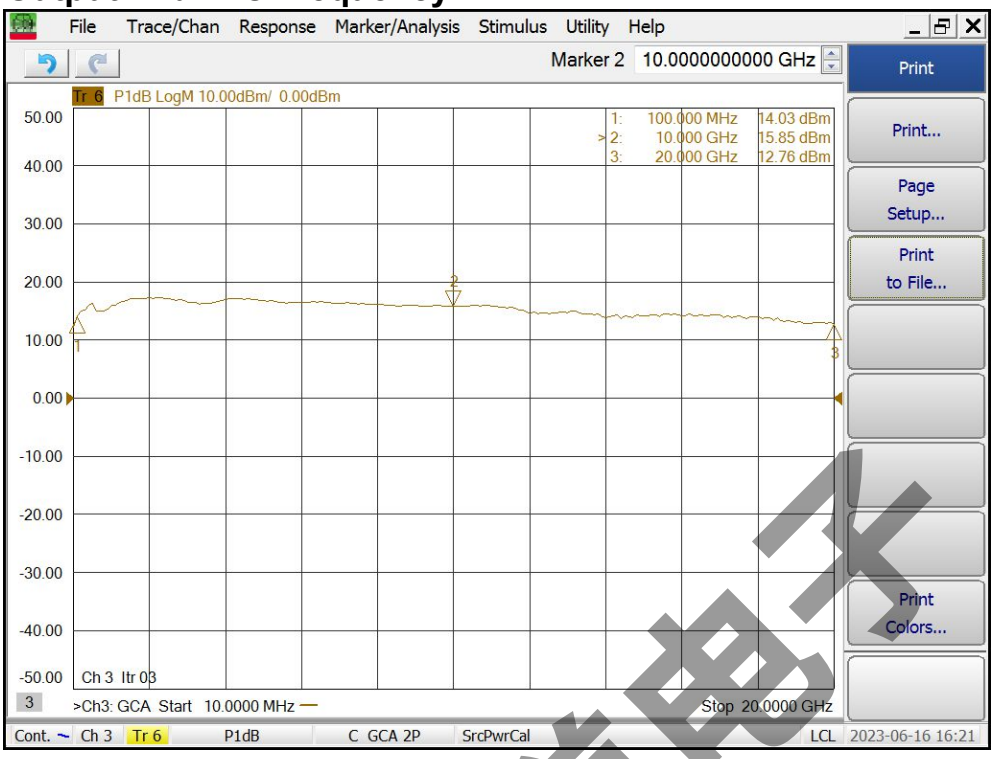
Gain S21, Isolation S12, Return Loss S11, S22 vs Frequency



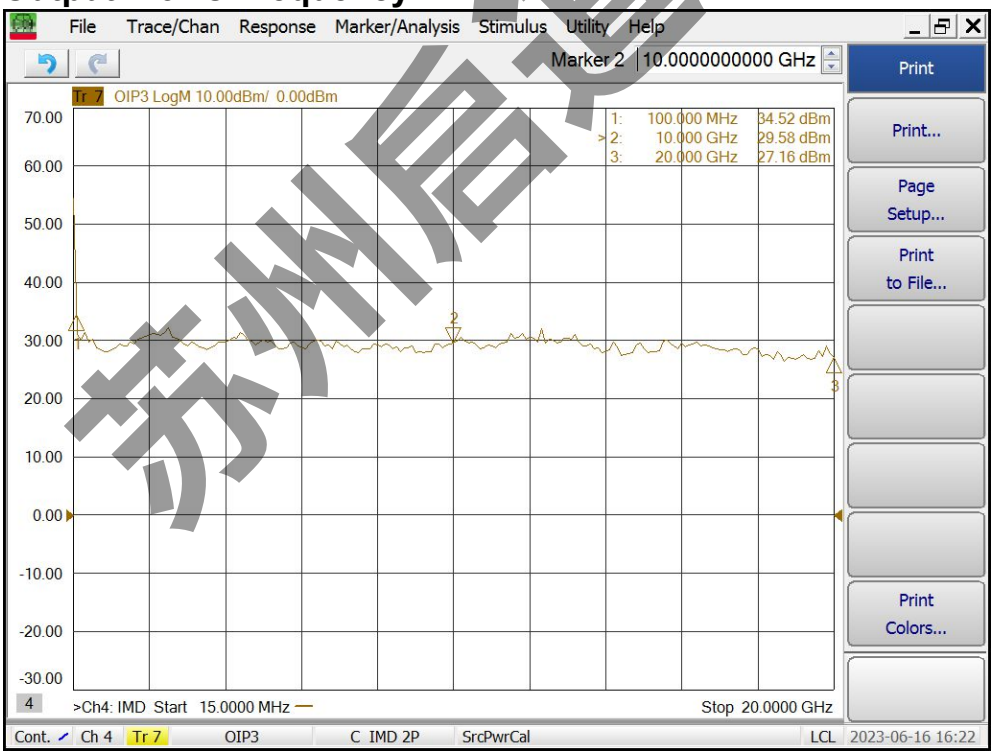
Noise Figure vs Frequency



Output P1dB vs Frequency



Output IP3 vs Frequency



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Absolute Maximum Ratings

Parameter	Absolute Maximum
Supply Voltage (Survival)	+6V
RF Input Power	+20dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

ESD Sensitive Material

RoHS (EU)/2015/863 COMPLIANT

CE

Outline