

Low Noise Amplifier 30-40 GHz

2.5dB Noise Figure, 20dB Gain, 12VDC- WR28 Wave guide Connectors

Key Features

Frequency Range: 30 to to 40 GHz.

Small Signal Gain: 20 dB

Noise Figure: 2.5 dB

Several Mounting options

Gold plated compact Aluminum housing

Solder filtered pins for DC connection

RF Connectors: WR28

Environmental test available un the request

Applications

Industrial / Laboratory

Satcom/ Telecom

Space / Aerospace / Military



This Low Noise Amplifier provides a gain of 20dB with a noise figure below 2.5dB. The compact size and modularity makes it ideal for a wide range of applications.

Order Examples: RLNA-30-40-2.5dNF-20d-12VDC-WR28-z21

Description: (Low Noise Amplifier, 30-40GHz, 2.5dB Noise Figure, 30dB Gain, 12VDC, WR28 Waveguide)

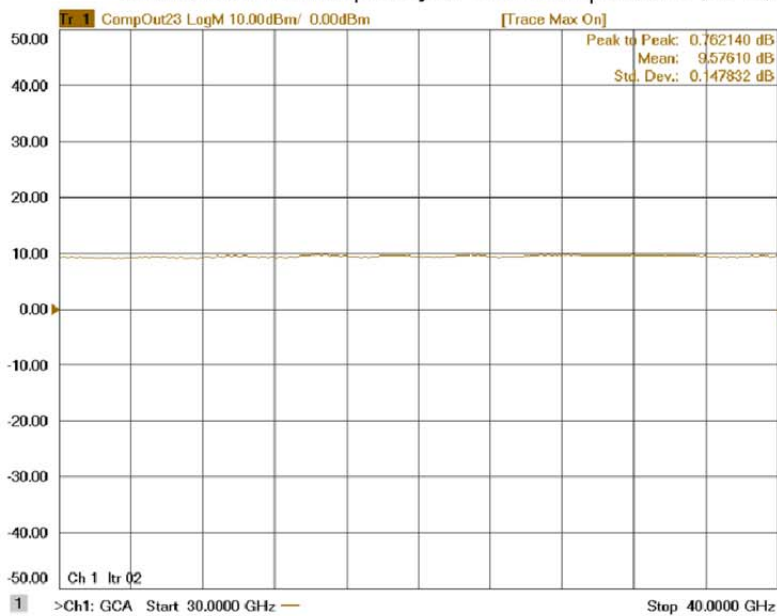
Specification a case temperature of 25°C ±1				Units
	Min	Typical	Max	
Frequency	30	-	40	GHz
Output Power(P1dB)	9.2	9.5	9.8	dBm
Gain	18	20	22	dB
Noise Figure	2.4	2.4	2.5	dB
VSWR input	1.3:1	1.8:1	2.2:1	-
VSWR output	1.1:1	1.5:1	1.9:1	-
DC Voltage	9	12	15	V
Power Consumption	-	0.5	-	W
Input Power rate			-1dBm	
Operating Temp	-35		75	°C
Storage Temp	-55		125	°C
Humidity	70% ±10			%
DUT Warm of Time	30			Minutes
Test Equipment Warm of Time				
Connectors	WR28 IN/OUT			

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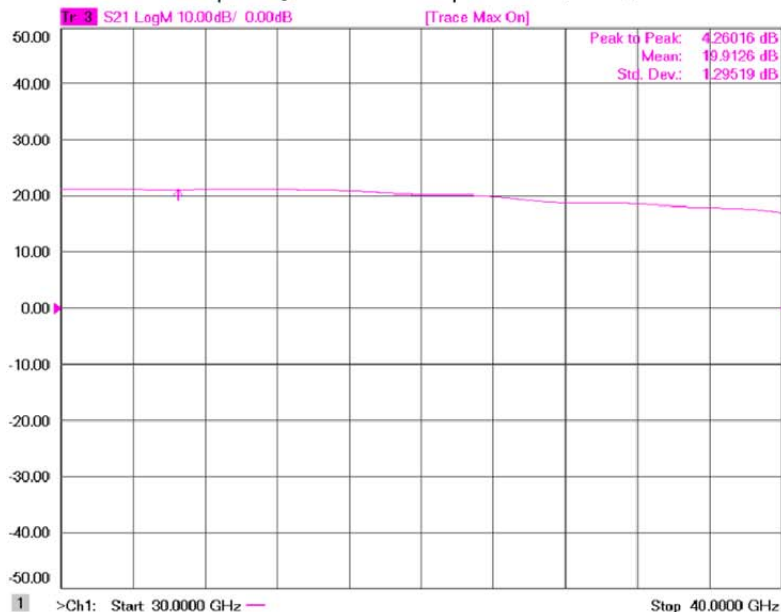
Output power at 1 dB Compression

Figure 1 shows output power at 1dB compression measurement as a function of frequency at room temperature (25°C).



Small Signal Gain

Figure 2 shows small signal gain measurement as a function of frequency at room temperature (25°C).

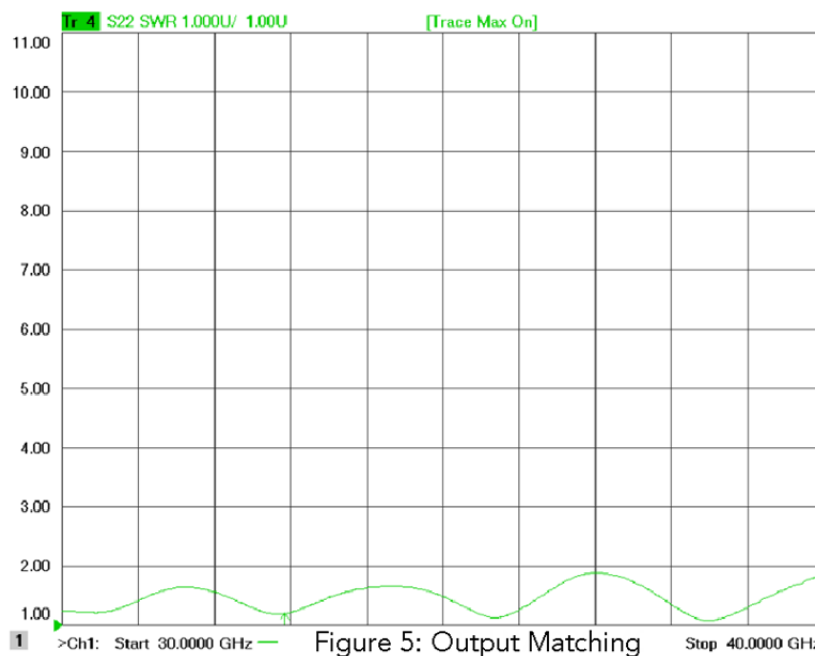
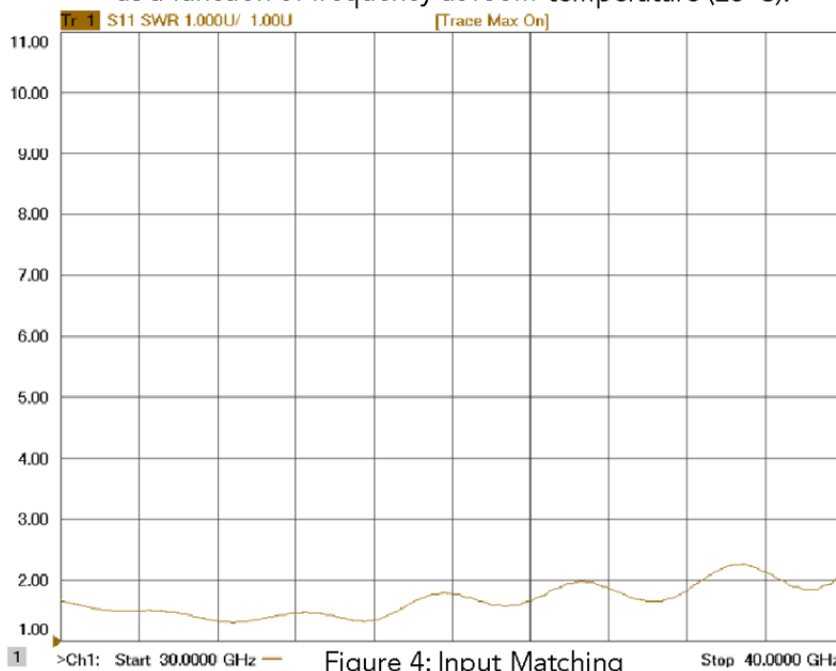


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Input and Output Matching

Figure 4 and Figure 5 show input (S11) and output (S22) VSWR as a function of frequency at room temperature (25°C).



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Preview Line Drawing

