

100MHz-8GHz, 17 dB gain



DATASHEET

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Features

Frequency: 100MHz-8GHz

Small signal gain: 17dB

■ NF=2dB

Single Power Supply

Applications

- 5G Communication
- Test Equipment
- ROF (RF Over Fiber)
- Radar System

This is high gain low noise amplifier with 17dB gain in the frequency of 100MHz-8GHz. The DC power requirement is +5/80mA. The module is with SMA connector.

We can provide all kinds of coaxial low noise amplifiers, with frequency from 0.01-67GHz, gain from 20 to 60dB, Pout from +5 to +27dBm, and connectors from SMA to 1.85mm.

Specifications

Parameter	Min	Typical	Max	Unit
Frequency Range		100MHz-8GHz		MHz - GHz
Gain (0.1-6GHz)	15	17		dB
NF (0.1-6GHz)		2	4	dB
Input Power		-20	-10	dBm
P1dB		+17		dBm
Psat		+19		dBm
Output Vpp				Vpp
Drain Supply		+5	+8	V
Current		80	100	mA
Input Return Loss		-10		dB
Output Return Loss		-10		dB
Spec Temp		25		°C
Weight (Without Heatsink)		55		g
Size		See outline		mm
Drain Supply		+13		V
RF Input Power		+10		dBm
Input Vpp				Vpp
Operating Temperature(note)		-40 to +85		°C
Storage Temperature		-55 to +125		°C
Input Port		SMA Female		
Output Port		SMA Female		
Case Material		Copper		
Finish		Gold Plated		

Note

- 1. Datasheet may be changed according to update of MMIC, Raw materials, process, and so on.
- 2. This data is only for reference, not for guaranteed specifications.
- 3. Please contact our team to make sure you have the most current data.

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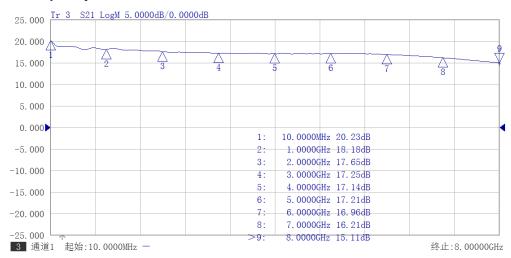


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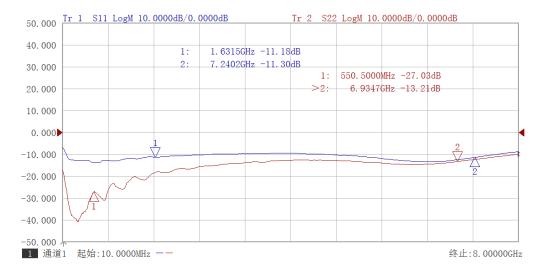


Test Data (25°C)

Gain vs Frequency



Return Loss vs Frequency



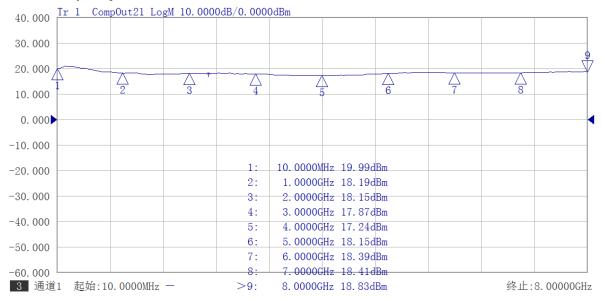
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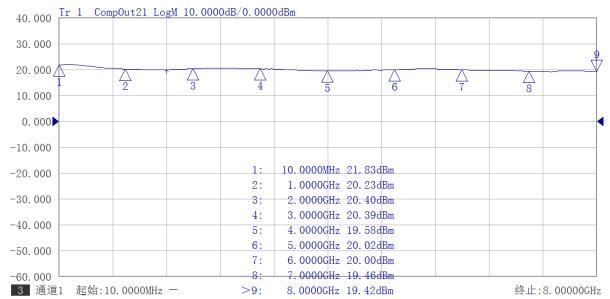
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P1db vs Frequency



P3db vs Frequency





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NF Test 1-8GHz



NF TEST 0.1-1GHz



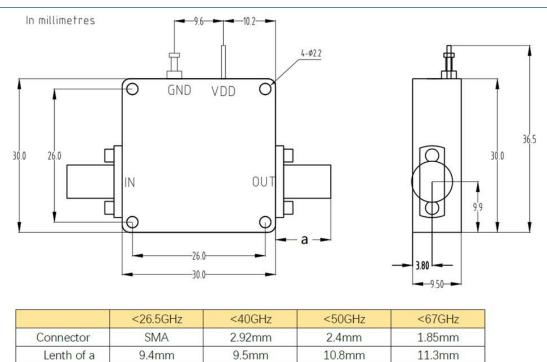




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Dimensions (mm)



Note: Female Default. Contact with us for other types.

Ordering Information *

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	0010	08	17	2	17	
Prefix	Low Frequency	High Frequency	Gain	NF	P1dB	Module*
LNAM-	100MHz = 0010	8GHz = 08	17dB = 17	2dB = 2	17dBm = 17	No = 0 Yes = 1

^{*} The module is a small metal box integrated with a power supply.