1-18GHz, 27dB Gain





DATASHEET

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This is high gain low noise amplifier with 27dB gain in the frequency of 1-18GHz. The DC power requirement is +5V/100mA. 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.

Features

- Frequency: 1-18GHz
- Small signal gain: 27dB
- NF=2.3dB
- Single Power Supply

Applications

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



Specifications

Parameter	Min	Typical	Max	Unit
Frequency	1		18	GHz
Gain		27		dB
Gain Flatness		+/-1.5	+/-2.5	dB
Input Power		-20	0	dB
NF		2.0	2.5	dBm
P1dB		+16		dBm
Psat		+18		dBm
Drain Supply		+5	+8	V
Current		100		mA
Input Return Loss		-10		dB
Output Return Loss		-10		dB
Spec Temp		25		°C
Drain Supply		+13		V
RF Input Power		+15		dBm
Operating Temperature	-40		+85	°C
Storage Temperature	-55		+125	°C
Input Port		SMA Female		
Output Port		SMA Female		
Case Material		Copper		
Finish		Gold Plated		
Weight		50		g
Size		SEE OUTLINE		

Notes

- 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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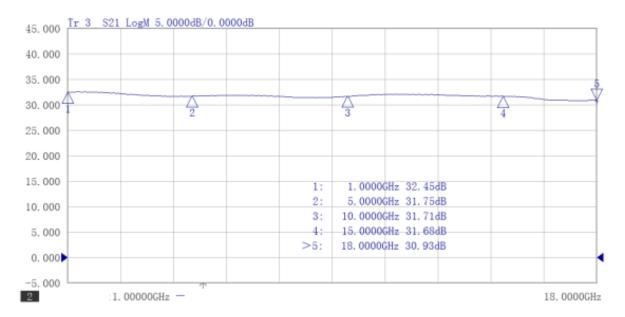
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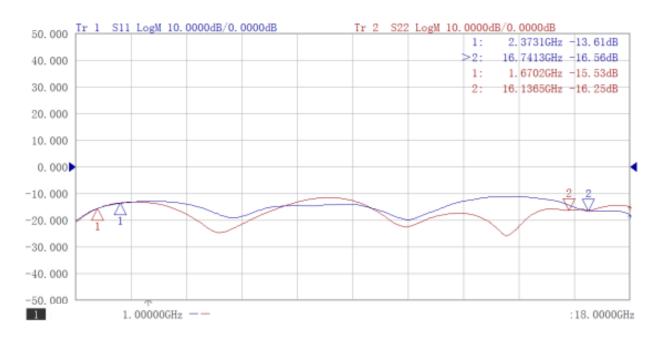


Test Data (25°C) Please note that test curves will vary slightly from unit to unit

Gain vs Frequency



Return Loss vs Frequency

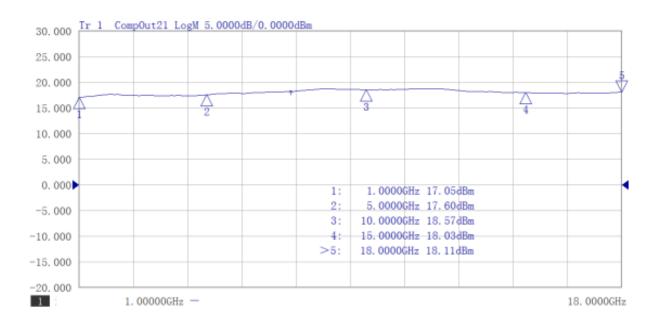


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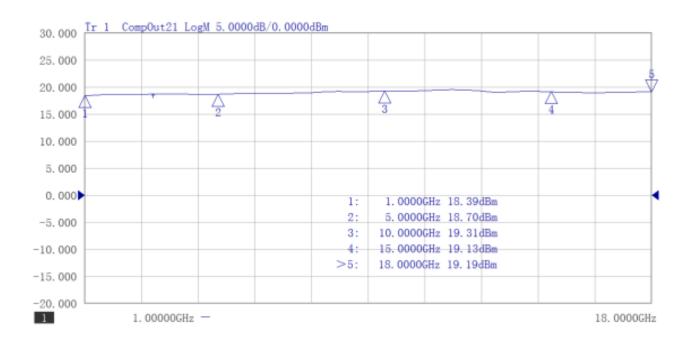




P1 vs Frequency



P3 vs Frequency



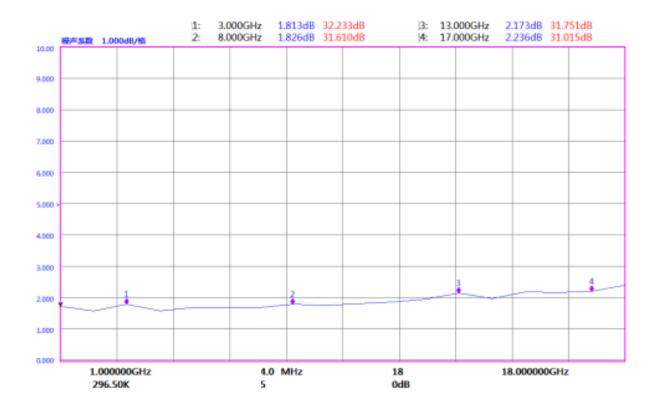
1-18GHz, 27dB Gain





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NF vs Frequency







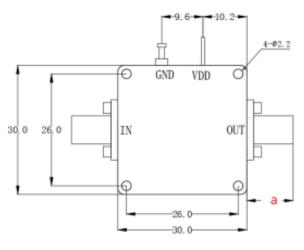


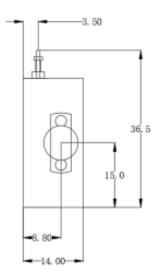
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Dimensions (mm)



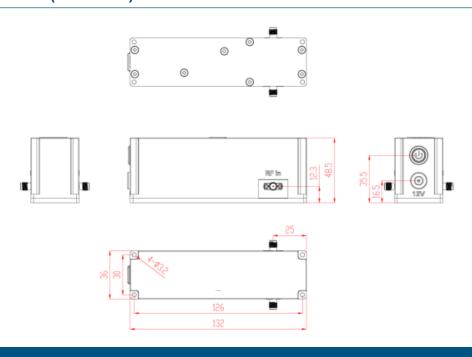


In millimetres

	<26.5GHz	<40GHz	<50GHz	<67GHz
Connector	SMA	2.92mm	2.4mm	1.85mm
Lenth of a	9.4mm	9.5mm	10.8mm	11.3mm

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

LCBT Option Dimension: (unit in mm)



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Ordering Information *

	0100	18	27	2	16	
Prefix	Low Frequency	High Frequency	Gain	NF	P1dB	Module*
LNAM-	1GHz = 0100	18GHz = 18	27dB =27	2.3dB = 2	16dBm = 16	No = 0 Yes = 1



