Broadband Low Noise RF Amplifier (LNA)



10MHz-50GHz, 13dBm power, 23dB gain



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Broadband low noise amplifier from 10MHz to 50GHz. The NF is 4.5dB from 100MHz-40GHz. The DC power requirement is +5V/170mA. The module is with 2.4mm Female. Other connector is available according to request.

The LNA can also work from 10MHz to 100MHz with good gain but no guarantee for NF. AT Microwave 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: 10MHz-50GHz

Small signal gain: 23dB

Noise Figure: 5dB

Single Power Supply

Applications

Broadband Communication

Test Equipment

ROF (RF Over Fiber)

Radar System

Specifications

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Parameter	Min	Typical	Max	Unit		
Frequency		10 - 50		MHz - GHz		
Gain	20	23		dB		
P1dB (10MHz-40GHz)		+12		dBm		
Psat (10MHz-40GHz)		+15		dBm		
NF(1-40GHz)		4.5	6.5	dB		
Input Return Loss	-5	-10				
Output Return Loss	-5	-10				
Drain Supply		+5	+8	V		
Current		170	200	mA		
SpecTemp		25		°C		
Drain Supply		+13		V		
RF Input Power		+10		dBm		
Operating Temperature(note)	-40 to +85			°C		
Storage Temperature		°C				
Input Port	2.4mm Female					
Output Port	2.4mm Female					
Case Material	Copper					
Package Sealing	Epoxy Sealed					
Finish	Gold Plated					
Weight	50 g					
Size	See outline					

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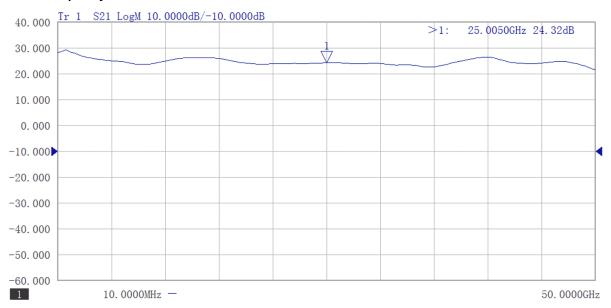


10MHz-50GHz, 13dBm power, 23dB gain



Test Data (25°C)

Gain vs Frequency from 10MHz-50GHz



Return Loss vs Frequency



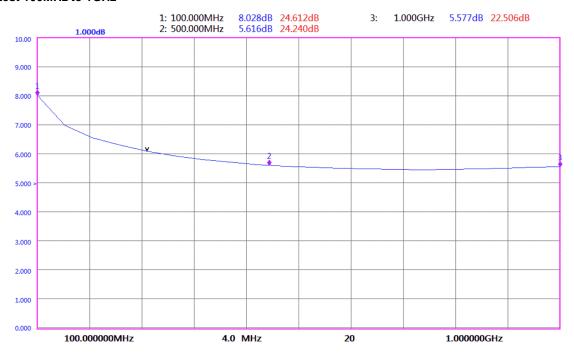




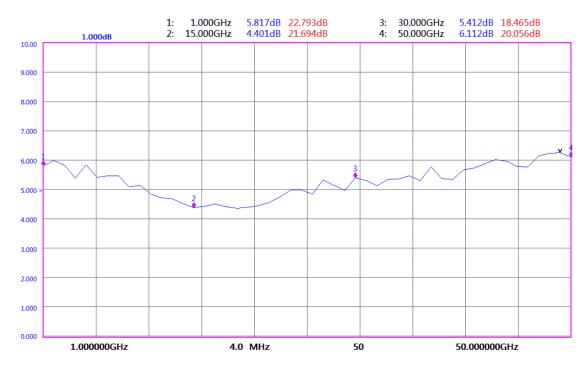
10MHz-50GHz, 13dBm power, 23dB gain



NF test 100MHz to 1GHz



NF Test from 1GHz to 50GHz



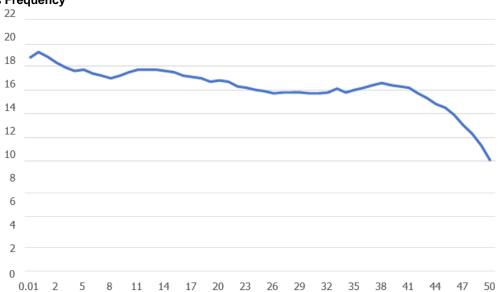


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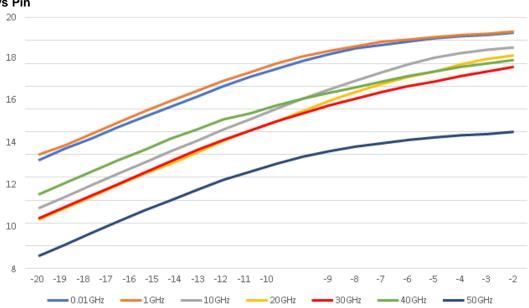


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Pout vs Pin



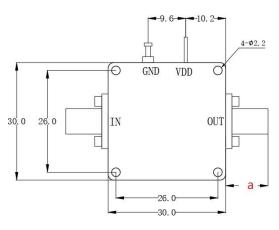


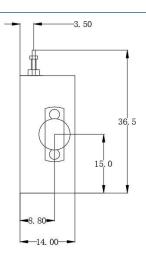


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Dimensions (mm)



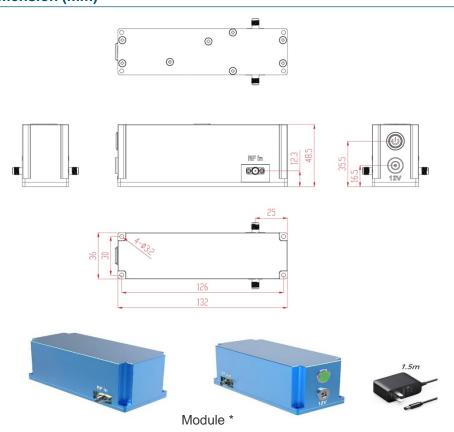


In millimetres

	<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 (mm)



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Ordering Information *

	0010	50	23	4	12	
Prefix	Low Frequency	High Frequency	Gain	NF	P1dB	Module*
LNAM-	10MHz = 0010	50GHz = 50	23dB = 3	4.5dB = 4	12dBm = 12	No = 0 Yes = 1

^{*} Module integrates DC power supply



