

Broadband Low Noise RF Amplifier (LNA)



75kHz-43.5GHz, 35 dB gain

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This LNAM broadband Low Noise RF Amplifier provides output power up to 10 dBm with a gain of 35 dB across a frequency range of 75kHz to 43.5GHz. It features a noise figure (NF) of 4.5 dB within the 1-40GHz range. The amplifier operates on +5V DC at 330mA and is equipped with a 2.92mm Female connector.

Features

- Frequency: 75kHz-43.5GHz
- Small signal gain: 35dB
- Noise Figure 4.5dB
- Single Power Supply

Applications

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

Specifications

Parameter	Min	Typical	Max	Unit
Frequency	0.000075		43.5	GHz
Gain	32	35		dB
Gain Flatness (1-40GHz)	-3		+3	dB
NF(1-40Hz)		4.5	6.5	dB
P1dB		+10		dBm
Psat		+13		dBm
Drain Supply		+5	8	V
Current		330	400	mA
Input Return Loss		-10		dB
Output Return Loss		-10		dB
Spec Temp		25		°C
Drain Supply		+13		V
RF Input Power		+10		dBm
Operating Temperature(note)	-40		+85	°C
Storage Temperature	-55		+125	°C
Input Port		2.92mm Female		
Output Port		2.92mm Female		
Case Material		Copper		
Package Sealing		Epoxy Sealed		
Finish		Gold Plated		
Weight (Without Heatsink)		100		g
Size		See outline		

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Rev 10/24/24

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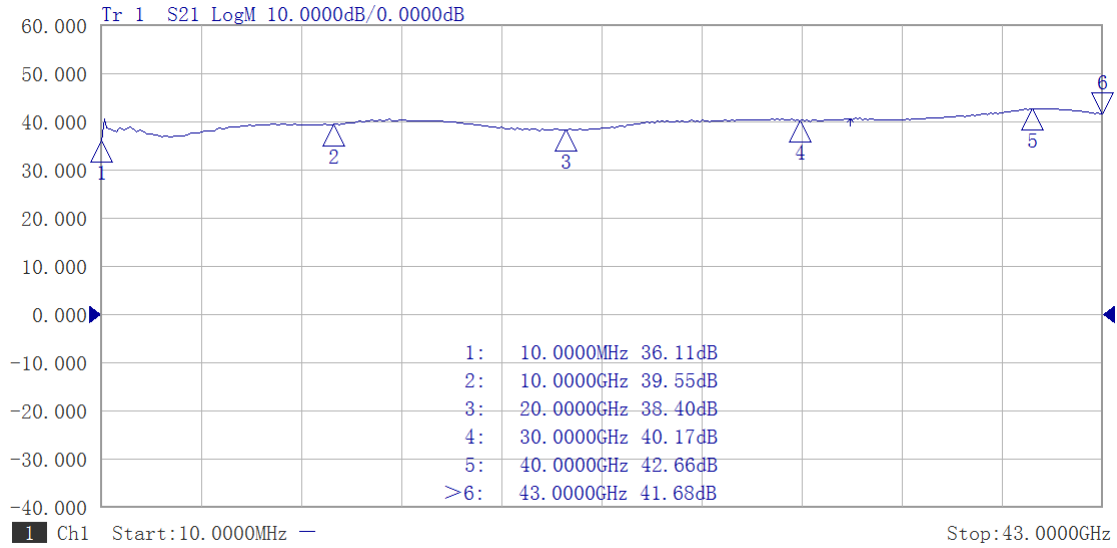


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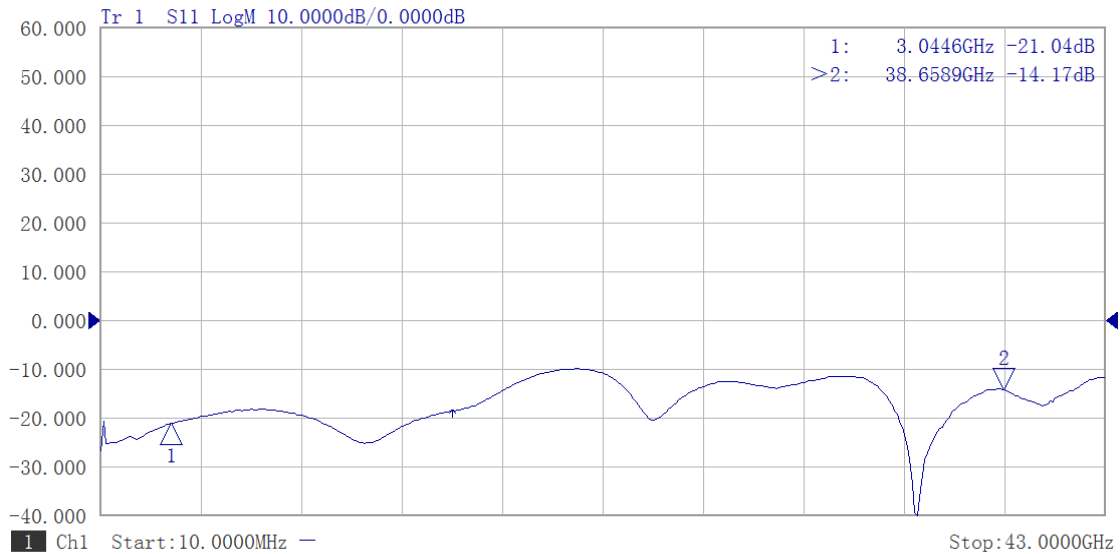
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Test Data (25°C)

Gain vs Frequency



S11 vs Frequency



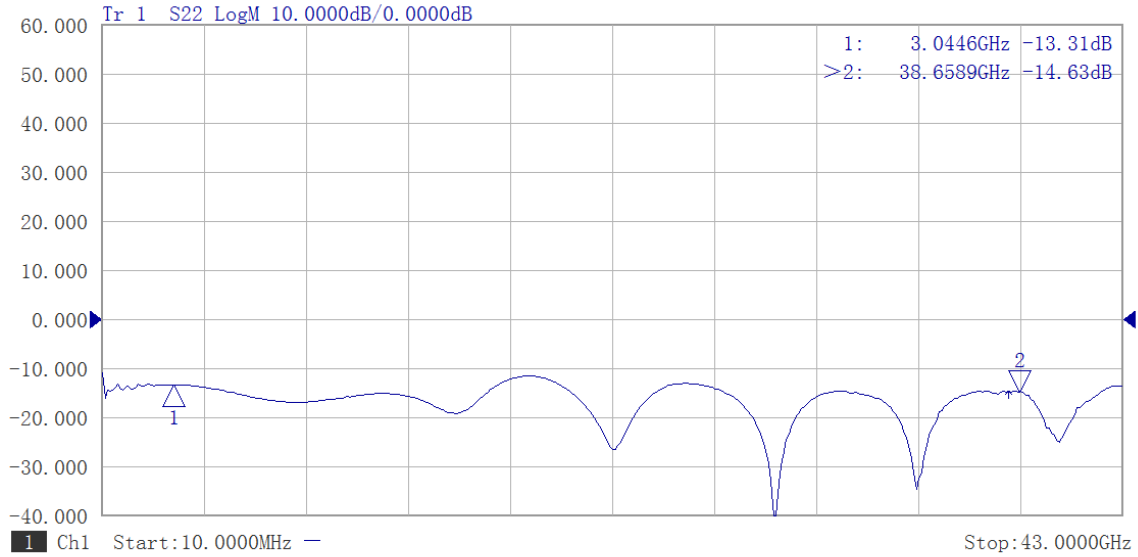
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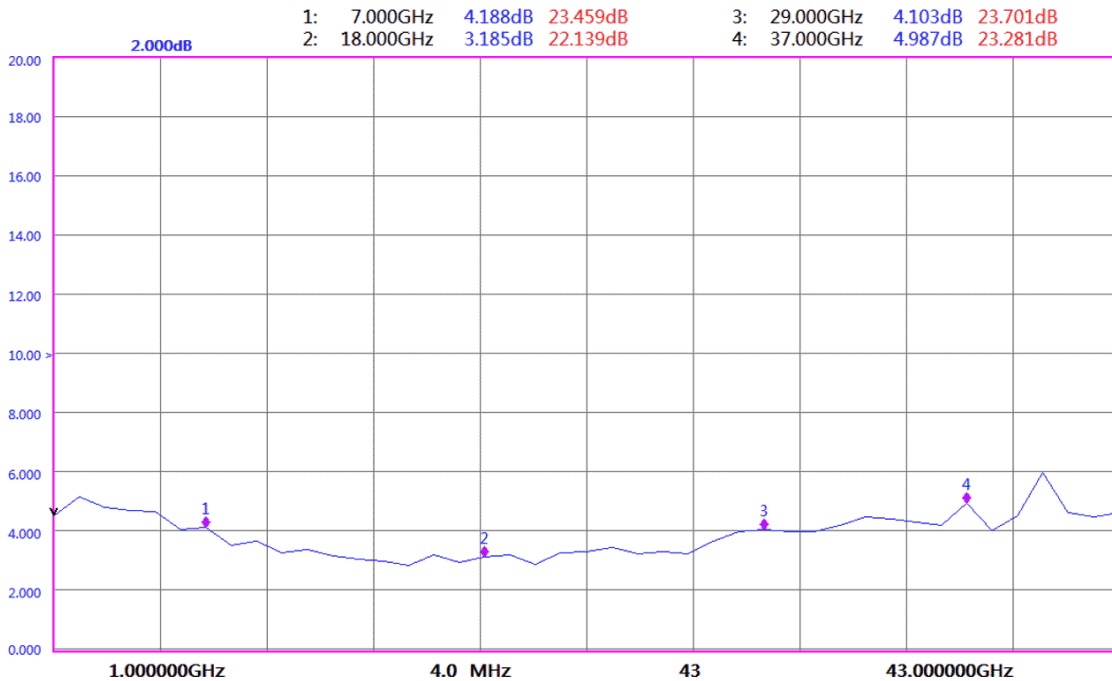
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S22 vs Frequency



NF vs Frequency



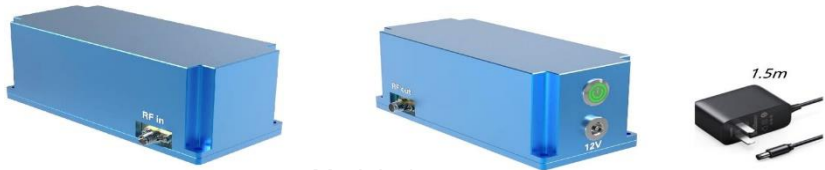
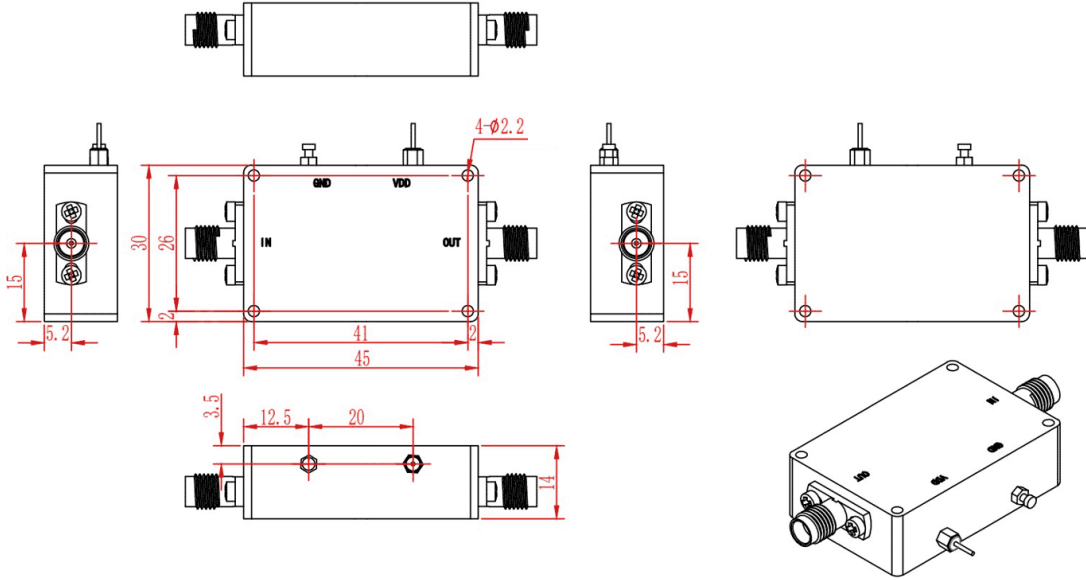
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Dimensions (mm)



Module *

Ordering Information *

	0007	43	35	4	10	<input type="checkbox"/>
Prefix	Low Frequency	High Frequency	Gain	NF	P1dB	Module*
LNAM-	75KHz = 0007	43.5GHz = 43	35dB = 35	4.5dB = 4	10dBm = 10	No = 0 Yes = 1