



Wide Band Low Noise Amplifier 50GHz~66GHz



- Frequency Range: 50GHz~66GHz
- Low Noise Figure: 7dB typical.
- Small Signal Gain \geq 17dB
- Applicable for base station ,repeaters of Satellite station network
- Aerospace and military application
- LMDS multi-carrier operation
- High peak to average handle capability
- All specifications can be modified upon request

Specification	Ultra Wide Band Low Noise Amplifier		
	PN: RLNAW15A		
	Min.	Typ.	Max.
Frequency Range(GHz)	50		66
Gain (dB)	15	19	
Gain Flatness (dB)		± 4	± 5
P1dB Power (dBm)	16	19	
Input Port VSWR		2.2	2.7
Output Port VSWR		2.2	2.7
Current (Id) (mA)		880	
Power Supply	7V		
Output Connector	WR15		
Finishing	Gold Plating		
Material	Brass		
Seal	Hermetically Sealed (optional)		



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The power beyond expectations

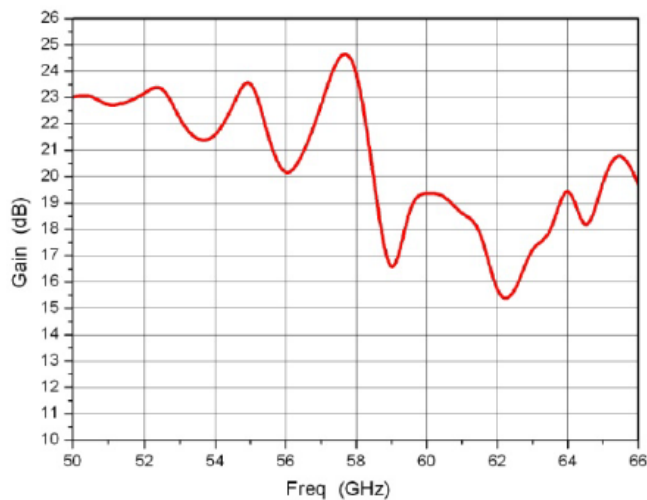
RLNAW15A

Absolute Maximum Ratings			
		Min.	Max.
RF Input Power		-	23dBm
Bias Voltage	Vd	-	+7V
	Vg	-1V	+0.3V
Operating Temperature		-20 °C	+70°C
Storage Temperature		-40 °C	+85°C

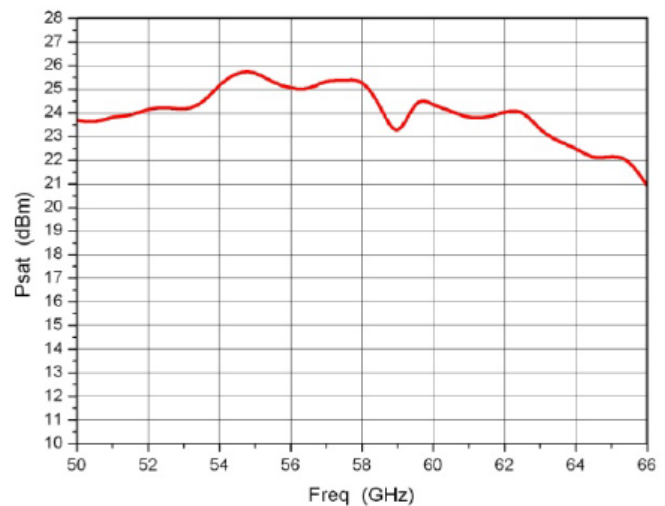
Biasing Up Procedure	
Step 1	Connect input and output
Step 2	Connect Ground Pin
Step 3	Connect +12V biasing
Power OFF Procedure	
Step 1	Turn off +12V biasing
Step 2	Remove RF connection
Step 3	Remove Ground.

Port Instructions:		
1	RF Input	WR28 Connector
2	RF Output	WR28 Connector
3	Vd	Power Supply Voltage for the Amplifier, Voltage Range: +4V~+5V. 0.8mm Diameter Feedthru Capacitor.
4	Vg	Gate control for amplifier. Adjust to achieve Id=50 mA. Voltage Range:-1V~+0.3V. 0.8mm Diameter Feedthru Capacitor.
5	GND	GND.

Typical Performance:



Small Signal Gain VS. RF Frequency



Output Power VS. RF Frequency

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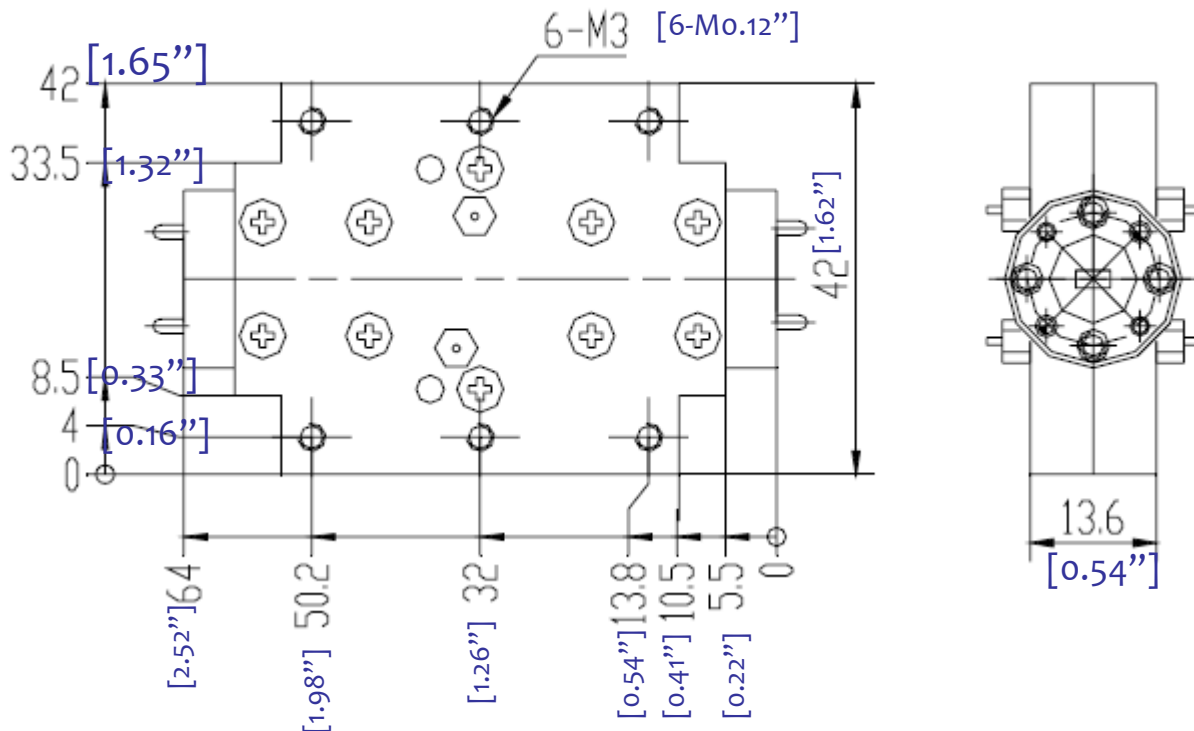
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Outline Drawings:

Heat Sink required during operation.



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