MILLIMETER WAVE LOW NOISE AMPLIFIER
ALN3325-41-2235

Features:

- low noise, high gain operation from 26.5 to 40.0GHz
- Low VSWR, unconditional stable
- Small size, low cost
- K-female connector I/O
- Single DC power supply required, built-in voltage regulator
- Operating temperature -40~+75°C, storage temperature -55~+85°C

Electrical Specifications

Parameters		Specifications		
		Minimum	Typical	Maximum
Frequency Range	GHz	26.5		40.0
Nominal Gain @25°C base plate temperature	dB	20.0	22.0	25.0
Noise Figure	dB		3.5	4.5
P-1dB Compression Point	dBm	12.0	13.5	
Output IP3	dB m	20.0	22.0	
Gain flatness	dB		+/-0.75	+/-1.25
Gain Variation over Temperature Range	dB		+/-1.5	
Reverse Isolation	dB		45.0	
Input VSWR	-		1.7:1	2.5:1
Output VSWR	-		1.7:1	2.5:1
Spurious	dBc		60.0	
Operating Temperature	°C	-40.0		+75.0
Survival Temperature	°C	-45.0		+125.0
DC Power Supply Voltage	V	+8.0	+12.0	+15.0
DC Power Supply Current	mA	110.0	125.0	150.0
RF In/Out connectors		k-female		
DC Input Connector		Feedthru Pin		
Size	inches	1.50×1.0×0.4		

Functional Diagram

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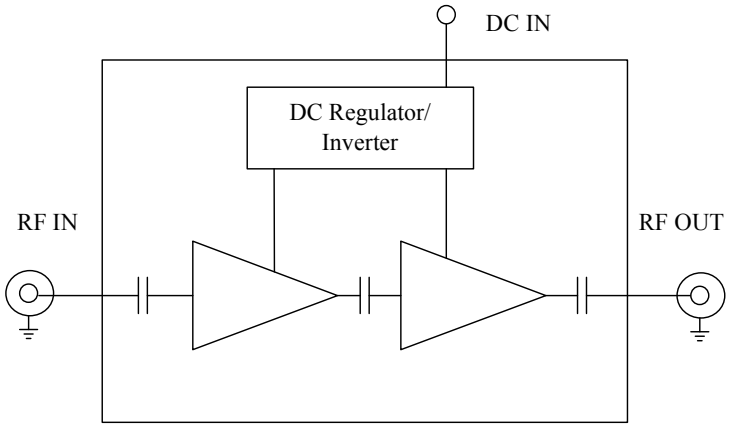
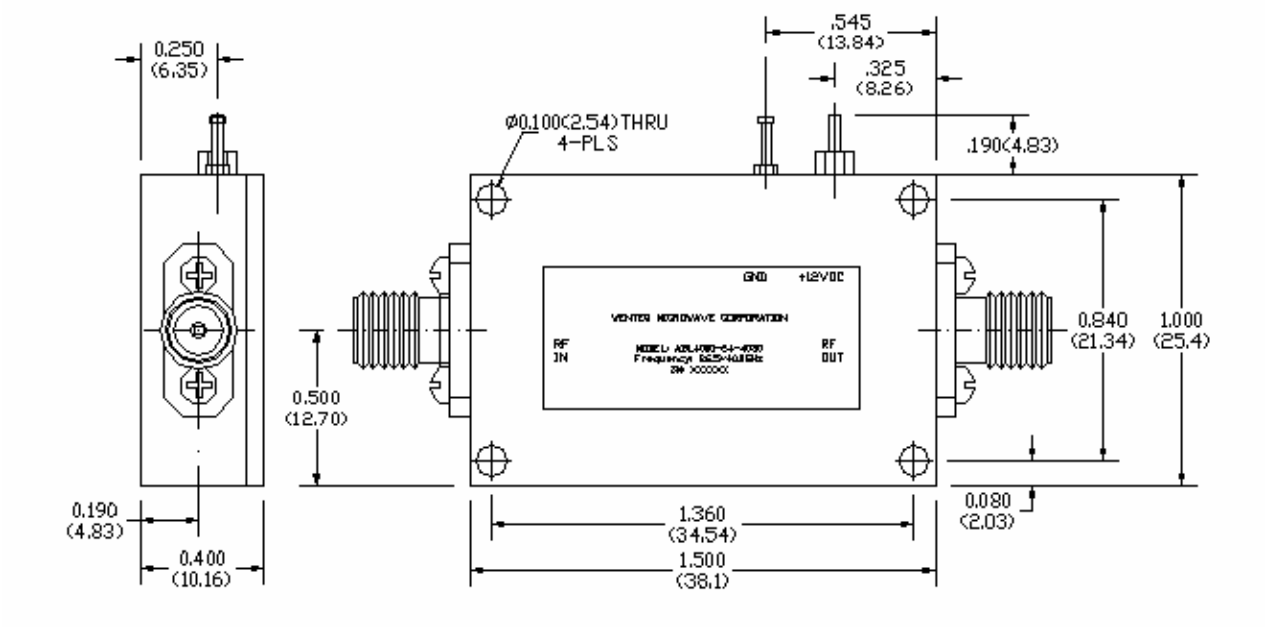


Mechanical Structure:



Note: All units in inches.

Absolute Maximum Ratings

DC Voltage	+18V
RF Input Power	+10 dBm
Storage Temperature	-55~+125°C
Operating Temperature	-40~+85°C

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