

Hermetically Sealed Wide Band Low Noise Amplifier 24GHz~36GHz



Note: Photo is for illustration purposes only.
Please refer to outline drawing.

Features

- Gain: 21dB Typical
- Noise Figure: 2.5dB Typical
- P1dB Output Power: +5dBm Typical
- Supply Voltage: +3V
- Drop in Package

Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Test and Measurement

Electrical Specifications, TA = +25°C, Vcc = +3V

Parameter	Min.	Typ.	Max.	Units
Frequency Range	24		36	GHz
Gain		21		dB
Gain Flatness		±1.5		dB
Gain Variation Over Temperature (-40 ~ +85)		±1.0		dB
Noise Figure		2.5		dB
Input VSWR			2.0	:1
Output VSWR			2.0	:1
Output 1dB Compression Point (P1dB)		5		dBm
Saturated Output Power (Psat)		7		dBm
Output Third Order Intercept (IP3)		13		dBm
Supply Current (Vcc=+3V)			68	mA
Isolation S12		-30		dB
Impedance		50		Ohms
Input / Output Connectors	2.92mm -Female			
Finish	Gold Plated			
Material	Kovar			
Package Sealing	Hermetically Sealed			

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Absolute Maximum Ratings

Operating Voltage	+5V
RF Input Power	-5dBm

Biasing Up Procedure

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

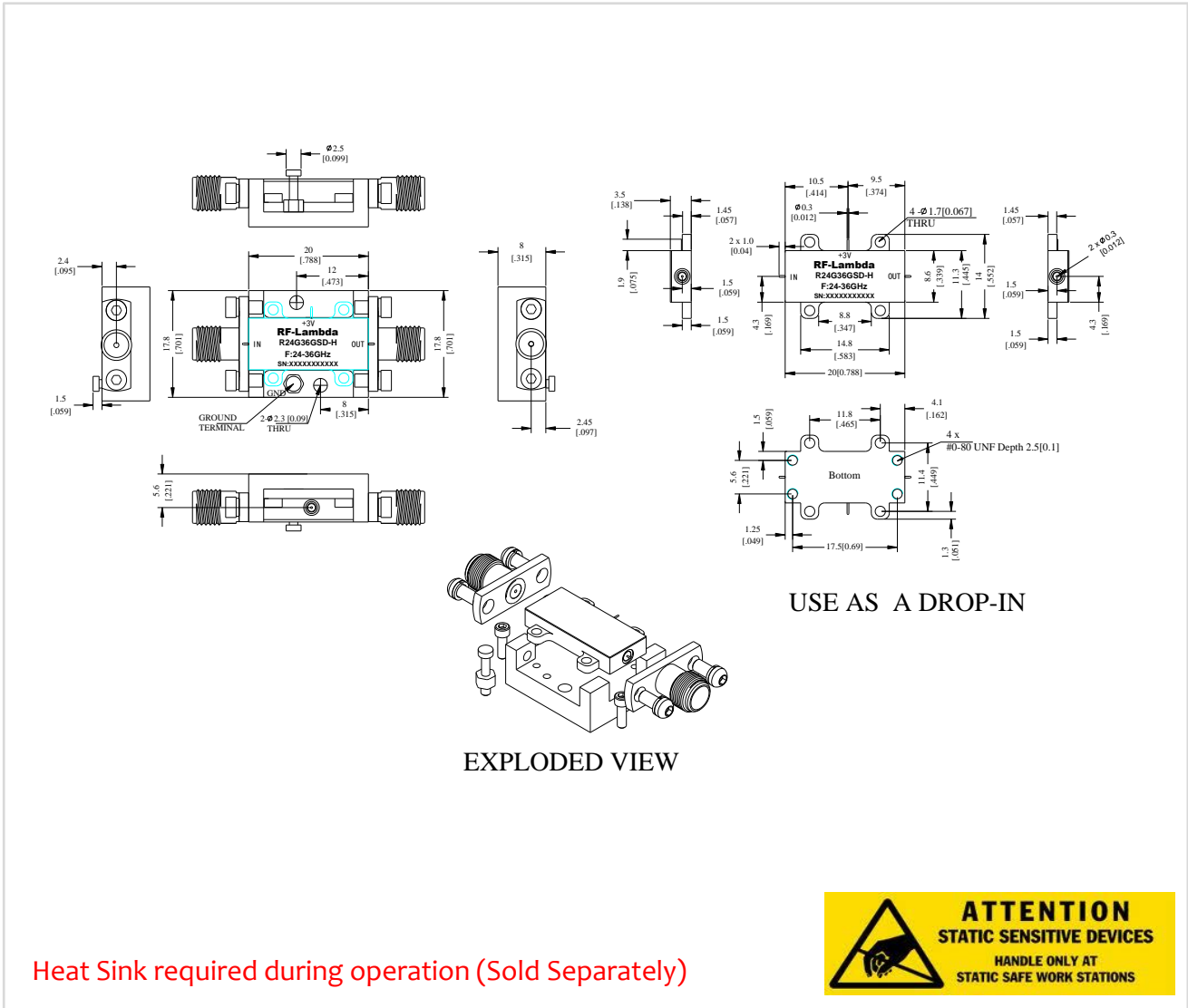
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40°C~+85°C (Case Temperature)
Storage Temperature	-50°C~+105°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C for 72 Hours
Shock	1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude	Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883 (For Hermetically Sealed Units)

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Outline Drawing:

All Dimensions in mm [inches]



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Ordering Information

Part No.	Description
R24G36GSD-H	Hermetically Sealed 24-36GHz Wide Band Low Noise Amplifier

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