

RF-LAMBDA LEADER OF RF BROADBAND SOLUTIONS

RFLI-601-2

Units

GHz

dB

dB

:1

W

Wide Band Coaxial Isolator 8.2 – 8.7GHz



Electrical Specifications, $T_A=25 \mathcal{C}$

<u>Features</u>

- High power handling capability up to 10W
- Wide band operation
 - High isolation within operational band
- Low Insertion loss
- Stable performance over temperature

Typical Applications



Aerospace and military applications

Max

0.40

1.20

10

- Wireless Infrastructure
- Test and Measurement

ParameterMinTypFrequency Range8.2-8.7Insertion Loss0.30Isolation (Note 1)232325VSWR1.15Forward Power (CW)9

Reverse Power (CW)			1	w
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	SMA-Female			
Finish	Nickel Plated			
Case Material	Aluminum alloy			
Weight		0.71		ounces
Impedance		50		Ω

Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss Bandwidth (5 ~10) % x Center Frequency (Isolation >26dB) Bandwidth (20~30) % x Center Frequency (Isolation >25dB) Bandwidth (40~60) % x Center Frequency (Isolation >23dB) Ask manufacturer for details

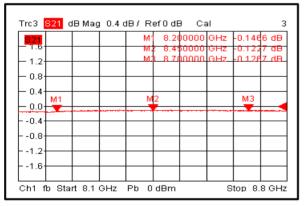


Environmental Specifications and Test Standards

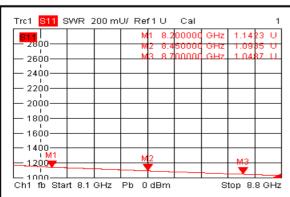
Parameter	Standard	Description	
Operational Temperature	MIL-STD-39016	-40°C~+80°C	
Storage Temperature		-45°C~+85°C	
Thermal Shock		1 Hour@ -45℃ → 1 Hour @ +85℃ (5 Cycles)	
Random Vibration		Acceleration Spectral Density 6 (m/s) 016 Total 92.6 RMS	
Electrical & Temperature Burn In		Temperature +85℃ for 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	MIL-STD-883 (For Hermetically Sealed Units)	

Typical Performance Plots

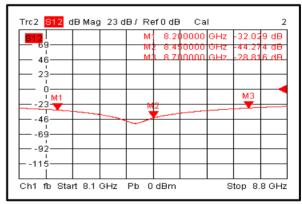
Insertion Loss



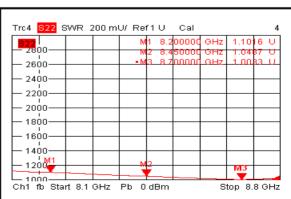
VSWR 1



Isolation



VSWR₂

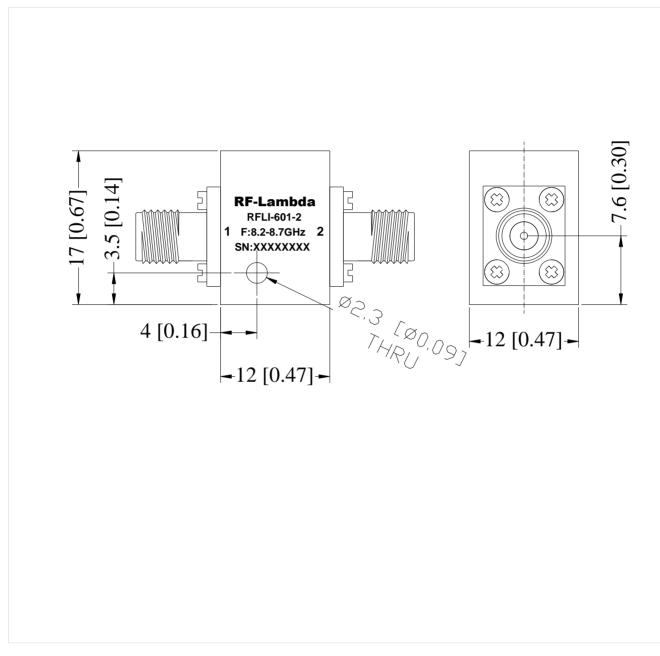




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Outline Drawing:

All Dimensions in mm [inches] Tolerance \pm 0.25 [0.01]



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