

High Isolation Coaxial Isolator 2.2 - 2.4GHz





- High isolation to 25dB
- Wide band operation
- · High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

Typical Applications

- Aerospace and Military Applications
- Test and Measurement
- Wireless Infrastructure

Electrical Specifications, $T_A=25$ °C

Parameter	Min	Тур	Max	Units
Frequency Range	2.2-2.4 GHz			
Insertion Loss		0.35	0.40	dB
Isolation	25	26		dB
VSWR		1.15	1.20	:1
Forward Power (CW)			10	W
Reverse Power (CW)			1	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	N-Female			
Finish	Nickel Plated			
Case Material	Aluminum alloy			
Weight	3.53 ounces			
Impedance	50 Ω			
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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 >25dB)

Ask manufacturer for details

RF-LAMBDA USA

www.rflambda.com

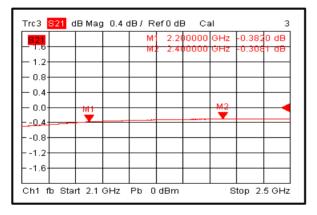


Environmental Specifications and Test Standards

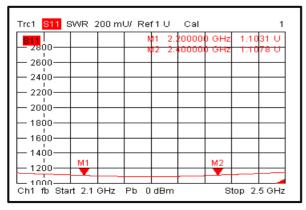
Parameter	Standard	Description		
Operational Temperature	MIL-STD-39016	-40°C~+70°C		
Storage Temperature		-40°C~+85°C		
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)		
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS		
Electrical & Temperature Burn In		Temperature +85°C 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	MIL-STD-883 (For Hermetically Sealed Units)		

Typical Performance Plots

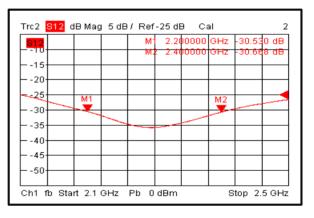
Insertion Loss



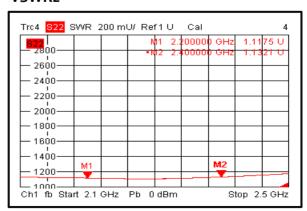
VSWR₁



Isolation



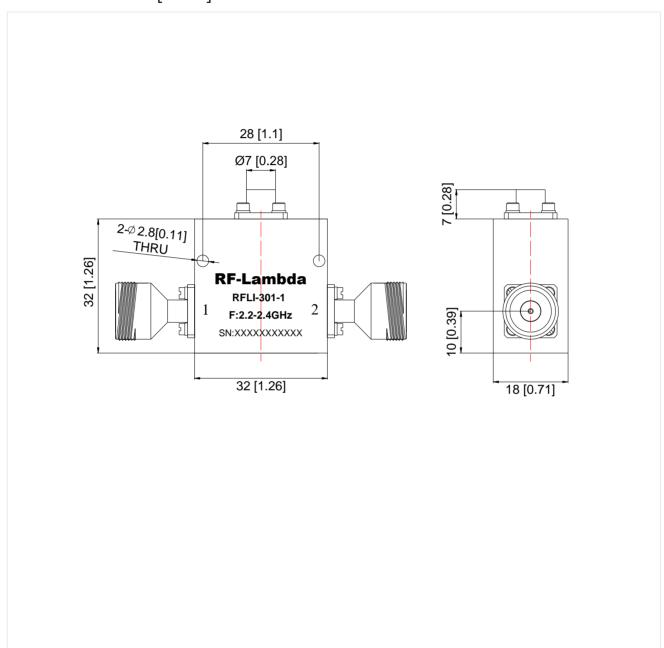
VSWR₂





Outline Drawing:

All Dimensions in mm [inches]



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