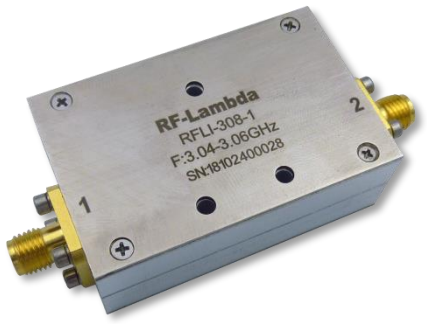
Dual Junction Narrow Band Coaxial Isolator
3.04 - 3.06GHz



Features

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

RoHS Compliant

Typical Applications

- Aerospace and military applications
- Wireless Infrastructure
- Test and Measurement

Electrical Specifications, T_A=25 ℃

Parameter	Min.	Typ.	Max.	Units
Frequency Range		3.04-3.06		GHz
Insertion Loss		0.40	0.50	dB
Isolation	50	51		dB
VSWR		1.10	1.15	:1
Forward Power (CW)			10	W
Reverse Power (CW)			5	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	SMA-Female			
Finish	Nickel Plated			
Case Material	Aluminum Alloy			
Weight	2.82			Ounces
Impedance	50			Ω

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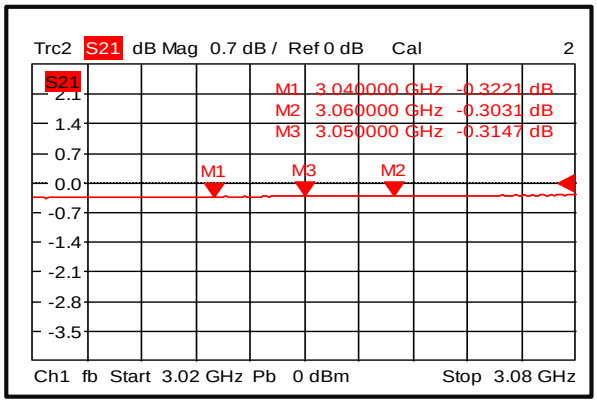
Environmental Specifications and Test Standards

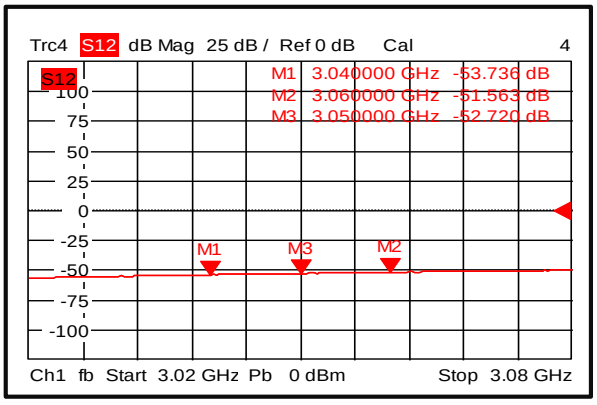
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20℃~+70℃
Storage Temperature		-40℃~+85℃
Thermal Shock		1 Hour@ -45℃ → 1 Hour @ +85℃ (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85℃ for 72 Hours
Shock		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

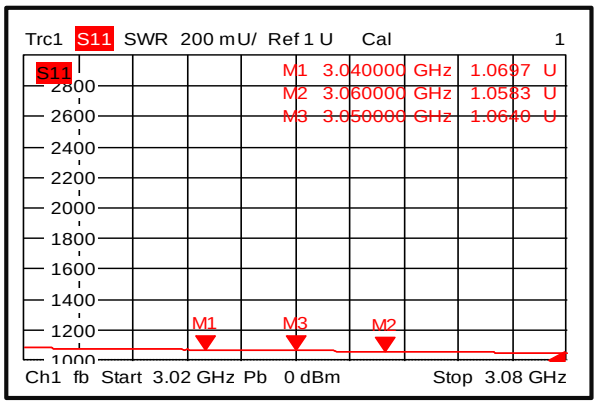
Insertion Loss



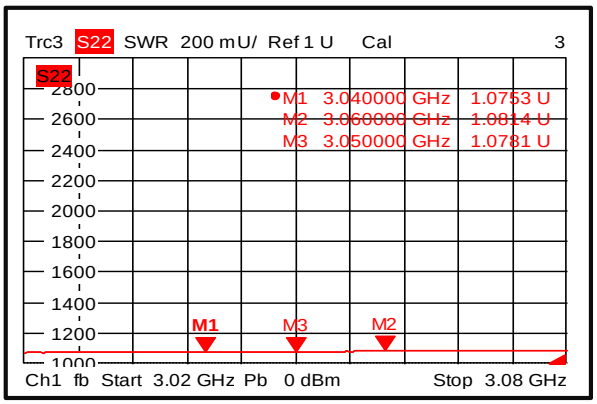
Isolation



VSWR 1

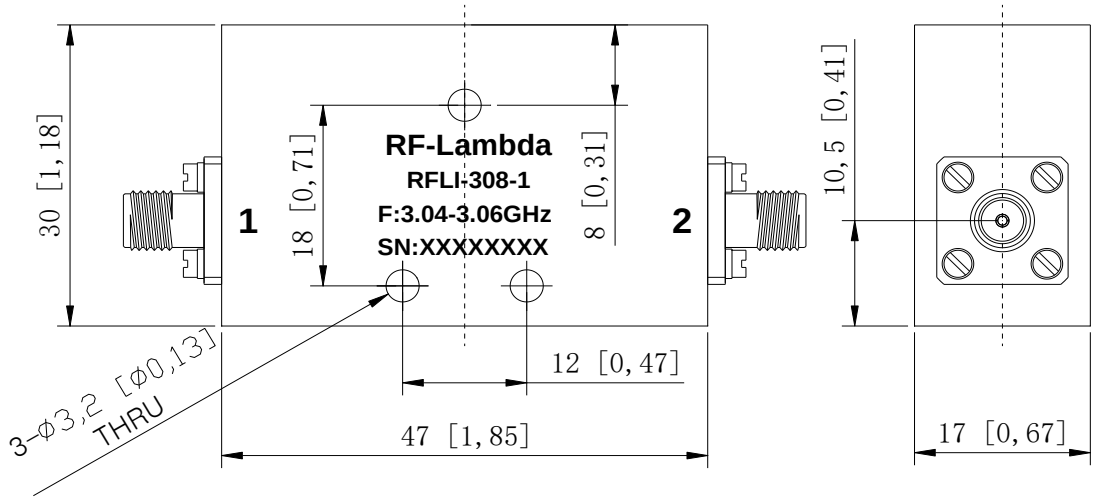


VSWR2



Outline Drawing:

All Dimensions in mm [inches]
Tolerance ±0.25 [0.01]



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