



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFLI-206-1-1.49

High Isolation Coaxial Isolator 1.465-1.515 GHz



Features

- High power handling up to 30W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature
- All specifications can be modified upon request

Typical Applications

- Aerospace and military applications
- LMDS multi-carrier operation

Electrical Specifications, $T_A=25^\circ\text{C}$

Parameter	Min.	Typ.	Max.	Units
Frequency Range	1.465-1.515			GHz
Insertion Loss		0.50	0.60	dB
Isolation (Note 1)	50	52		dB
VSWR		1.10	1.15	:1
Forward Power (CW)			30	W
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	4.23			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 >53dB)
Bandwidth (20~30) % x Center Frequency (Isolation >52dB)
Bandwidth (40~60) % x Center Frequency (Isolation >51dB)
Ask manufacturer for details

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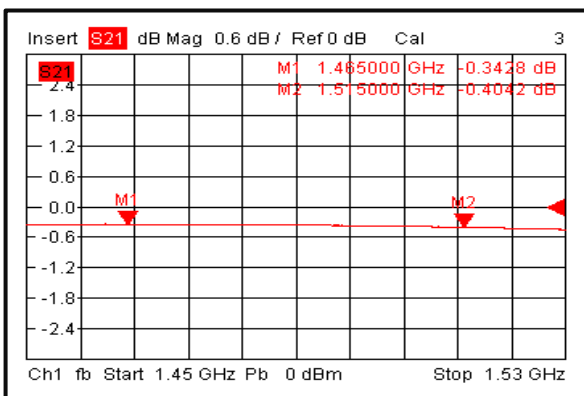
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Environmental Specifications and Test Standards

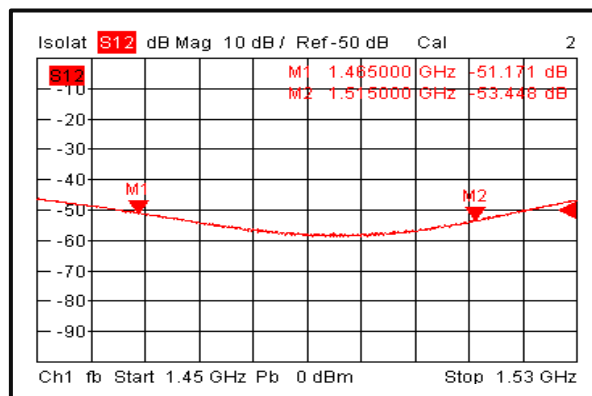
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40°C~+80°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 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



Isolation



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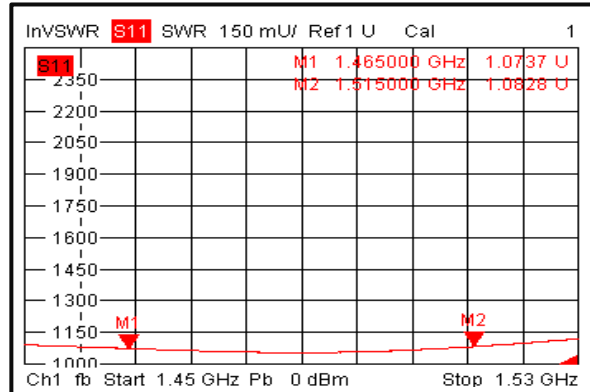


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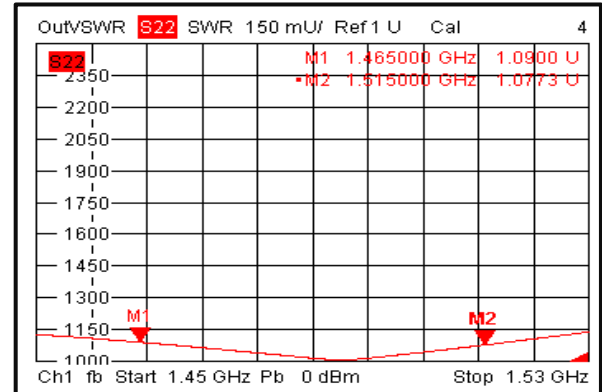
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VSWR1



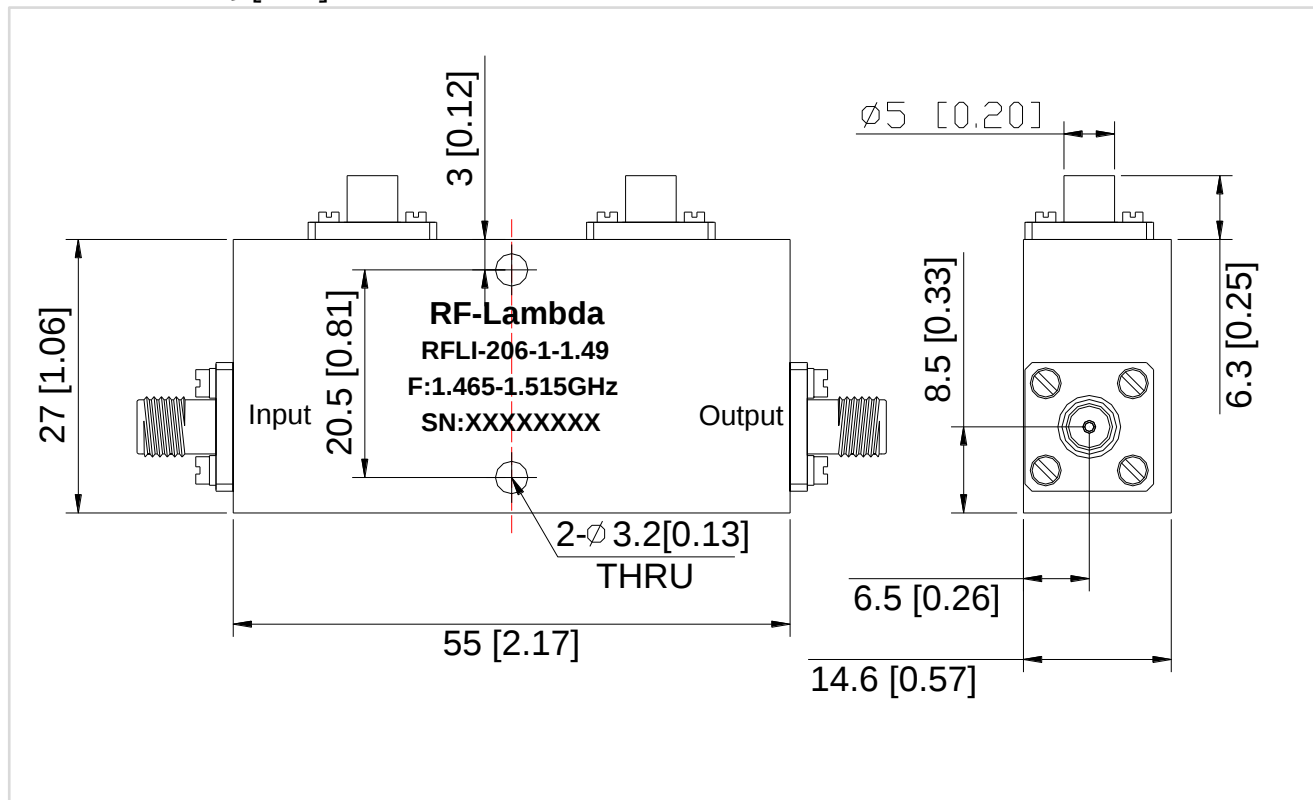
VSWSR2



Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.25 [0.01]



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