



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFLI-501-X

Wide Band Coaxial Isolator 8 - 14GHz



Photo is for illustration purpose only
Please refer to outline drawing



Features

- High power handling up to 10W
- 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	8~14			GHz
Bandwidth	200 (RFLI-501-1)			MHz
	400 (RFLI-501-2)			
	800 (RFLI-501-3)			
	1600 (RFLI-501-4)			
Insertion Loss			0.3 (RFLI-501-1)	dB
			0.4 (RFLI-501-2)	
			0.5 (RFLI-501-3)	
			0.7 (RFLI-501-4)	
Isolation	25 (RFLI-501-1)			dB
	23 (RFLI-501-2)			
	21 (RFLI-501-3)			
	17 (RFLI-501-4)			
VSWR			1.15 (RFLI-501-1)	:1
			1.2 (RFLI-501-2)	
			1.25 (RFLI-501-3)	
			1.35 (RFLI-501-4)	
Forward Power (CW)			10	W
Reverse Power (CW)			1	W
Rotation	Clockwise (Standard)			
Coaxial Connectors	N-Female/ SMA-Female			
Case Material	Aluminum Alloy			
Impedance	50			Ω

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Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40°C~+70°C
Storage Temperature		-40°C~+100°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)

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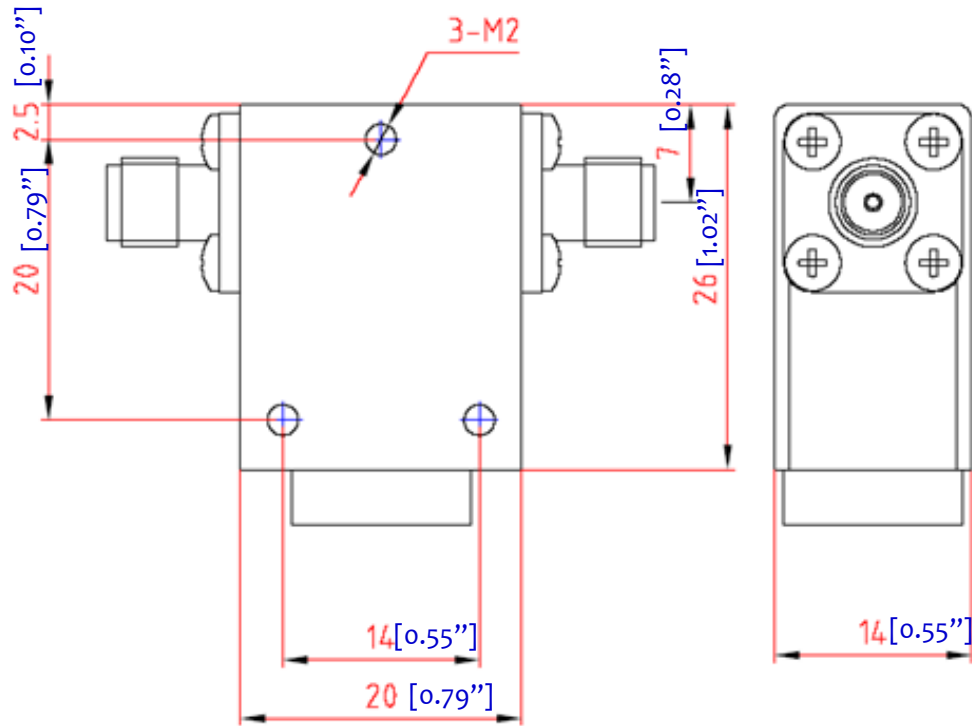
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Outline Drawing:

All Dimensions in mm [inches]



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