

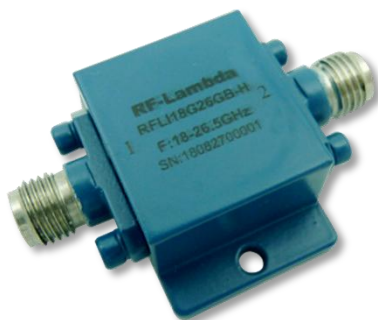


RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFL18G26GB-H

Hermetically Sealed Wide Band Coaxial Isolator 18 - 26.5GHz



Features

- High power handling up to 10W
- 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, $T_A=25^\circ\text{C}$

Parameter	Min	Typ.	Max	Units
Frequency Range	18-26.5			GHz
Insertion Loss	-40°C	25°C	+80°C	°C
	1.70	1.60	1.70	dB
Isolation (Note 1)	-40°C	25°C	+80°C	°C
	14	15	14	dB
VSWR	-40°C	25°C	+80°C	°C
	1.70	1.60	1.70	:1
Forward Power (CW)			10	W
Reverse Power (CW)			1	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input /Output Connectors	2.92mm-Female			
Weight	0.71			ounces
Impedance	50			Ω
Finish	Painted			
Case Material	Aluminum Alloy			
Sealing	IP68			
	Hermetically Sealed (Laser Welded)			
Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss Bandwidth (5 ~10) % x Center Frequency (Isolation >20dB) Bandwidth (20~30) % x Center Frequency (Isolation >19dB) Bandwidth (40~60) % x Center Frequency (Isolation >17dB) Ask manufacture for details				

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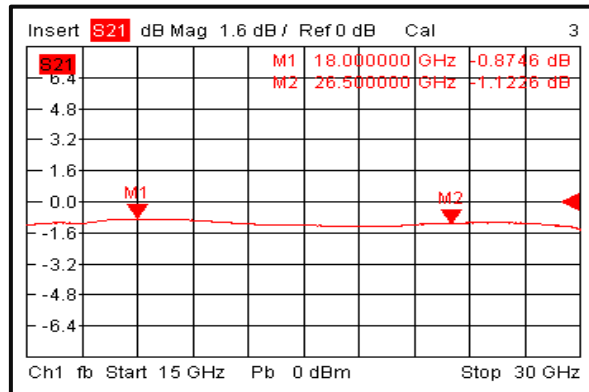
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Environmental Specifications and Test Standards

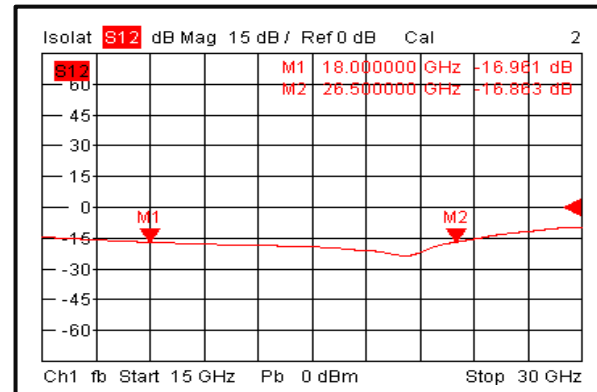
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40°C~+80°C
Storage Temperature		-45°C~+85°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72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

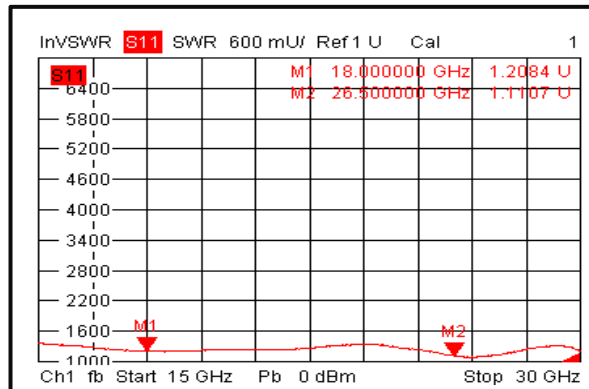
Insertion Loss



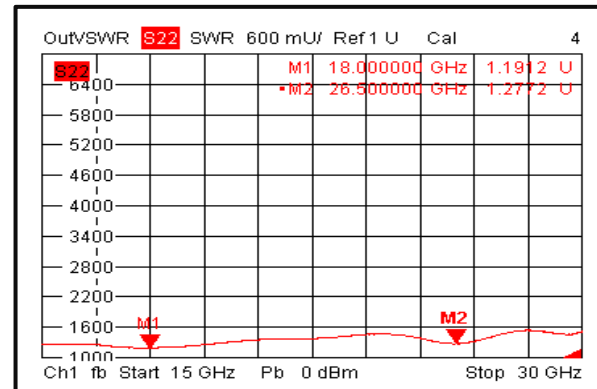
Isolation



VSWR 1



VSWR2



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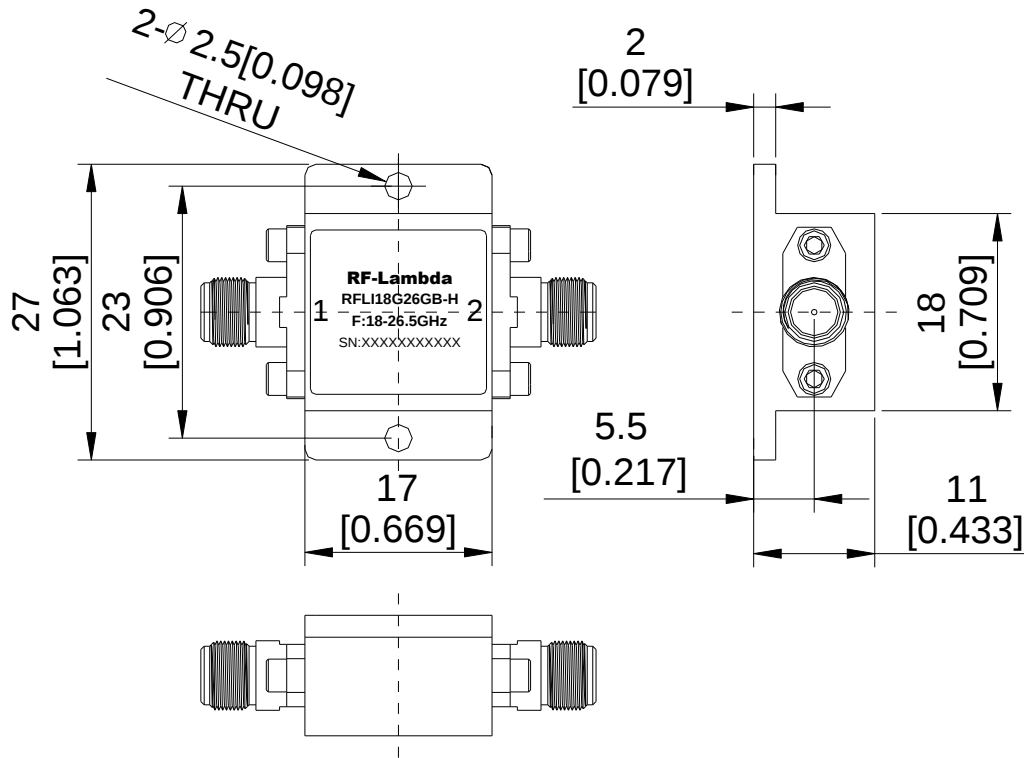
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Outline Drawing:

All Dimensions in mm [inches]



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