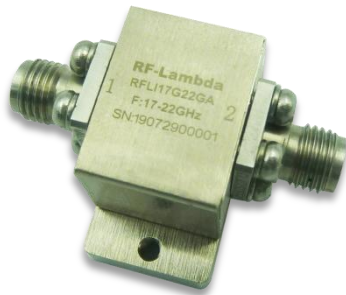




### Ultra Wide Band Coaxial Isolator 17 - 22GHz



#### Features

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

Parameter	Min	Typ	Max	Units
Frequency Range	17-22			GHz
Insertion Loss		1.3	1.5	dB
Isolation (Note 1)	15	16		dB
VSWR		1.35	1.4	:1
Forward Power (CW)			10	W
Reverse Power (CW)			1	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	SMA-Female			
Finish	Nickel Plated			
Case Material	Copper			
Weight		1.06		ounces
Impedance		50		$\Omega$

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 manufacturer for details

Ultra Wide Band Coaxial Isolator 17 - 22GHz



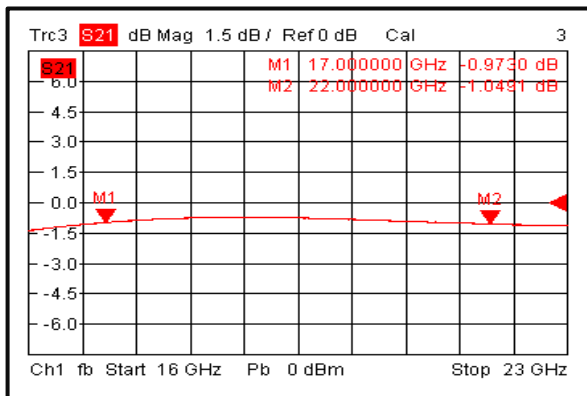
**Environmental Specifications and Test Standards**

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20°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)

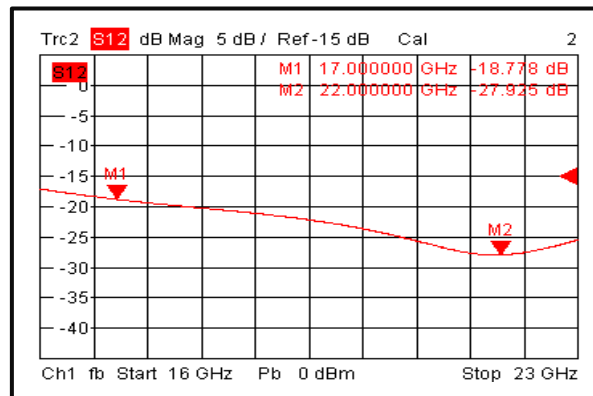
**Ultra Wide Band Coaxial Isolator 17 - 22GHz**

**Typical Performance Plots**

**Insertion Loss**

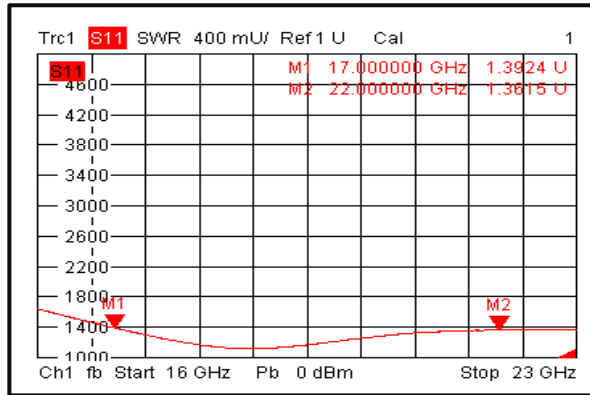


**Isolation**

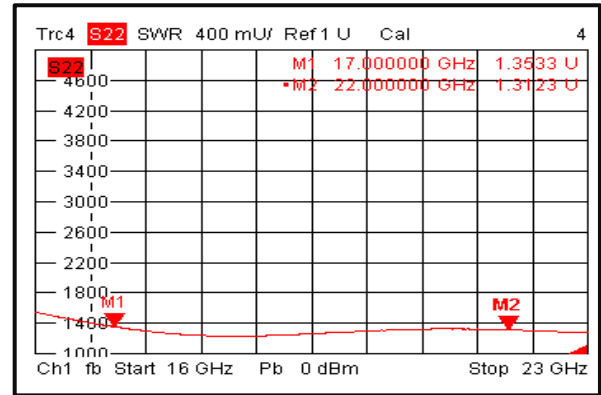




**VSWR1**

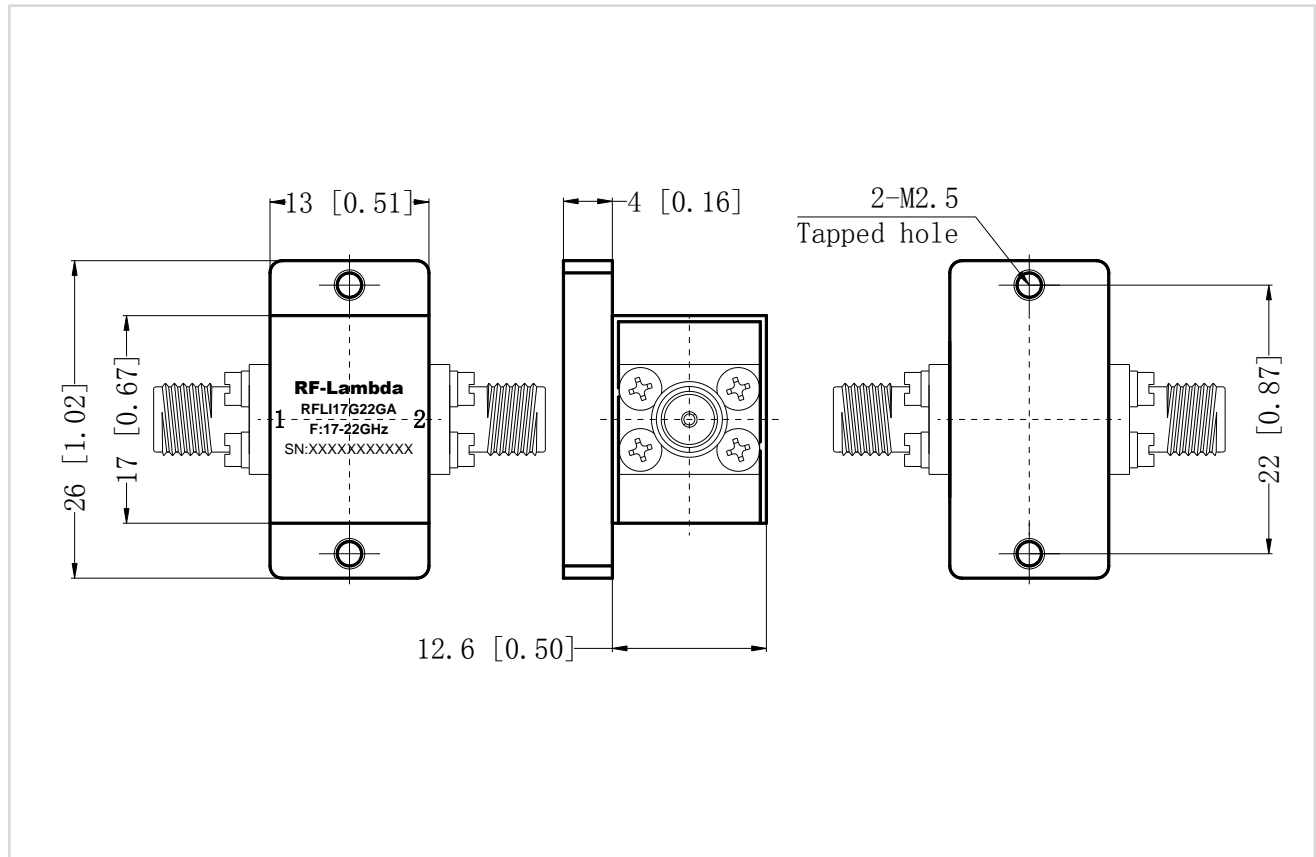


**VSWR2**



**Outline Drawing:**

All Dimensions in mm [inches]



**Ultra Wide Band Coaxial Isolator 17 - 22GHz**

**Important Notice**

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