

## Ultra Wide Band Coaxial Isolator 1 – 2GHz



Note: The photo is for illustration purposes only.  
Please refer to outline drawing

### Features

- High power handling up to 50W
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

### Typical Applications

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

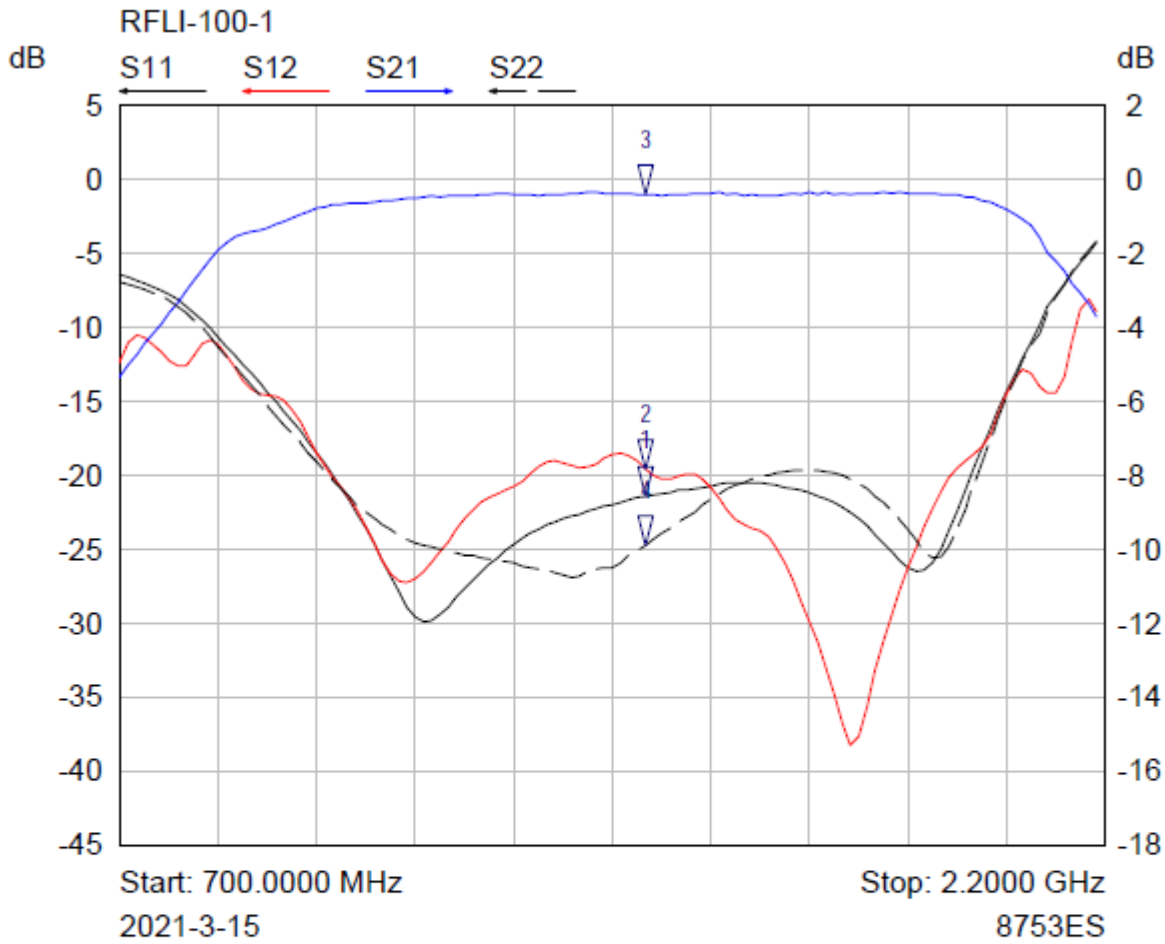
### Electrical Specifications, $T_A=25\text{ }^\circ\text{C}$

Parameter	Min.	Typ.	Max.	Units
Frequency Range	1-2			GHz
Insertion Loss			1.0	dB
Isolation	17			dB
VSWR			1.33	:1
Forward Power (CW)			50	W
Reverse Power (CW)			1	W
Weight	14.1			Ounces
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Connectors	SMA Female			
Impedance	50			$\Omega$

**Environmental Specifications and Test Standards**

Parameter	Description
Operational Temperature	-0°C~+50°C (Case Temperature)
Storage Temperature	-40°C~+85°C
Thermal Shock	-0°C → +50°C (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +70°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 (For Hermetically Sealed Units)

Typical Performance Plots



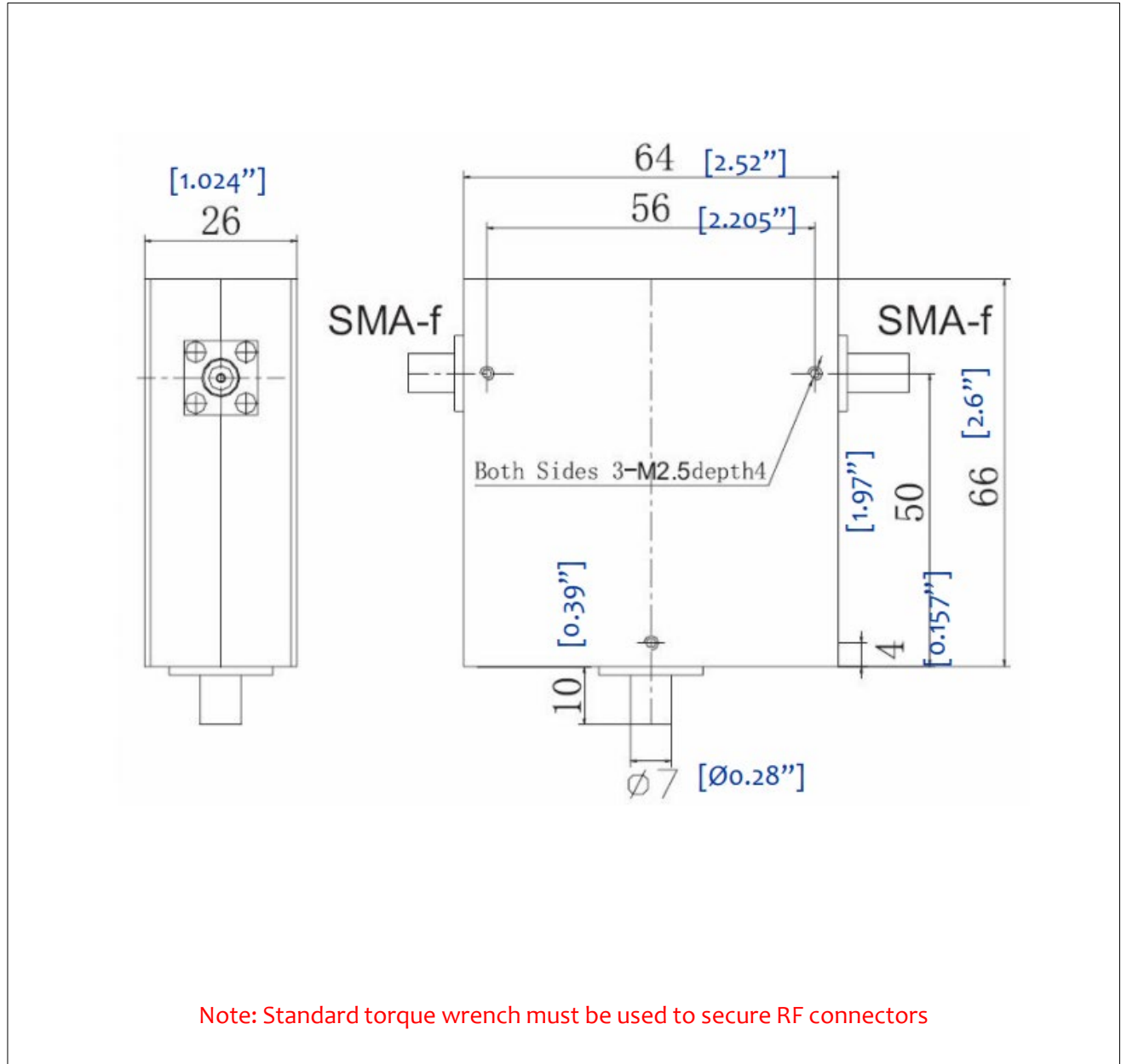
Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	1.5000 GHz	-21.40 dB	
2 ▽	S12	1.5000 GHz	-19.54 dB	
3 ▽	S21	1.5000 GHz	-0.40 dB	
4 ▽	S22	1.5000 GHz	-24.73 dB	

SN:20210320

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**Outline Drawing:**

All Dimensions in mm [inches]



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