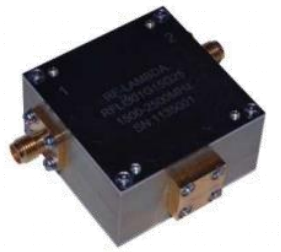
Ultra Wide Band Coaxial Isolator
1.7 ~ 3GHz



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

RoHS Compliant

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 ℃

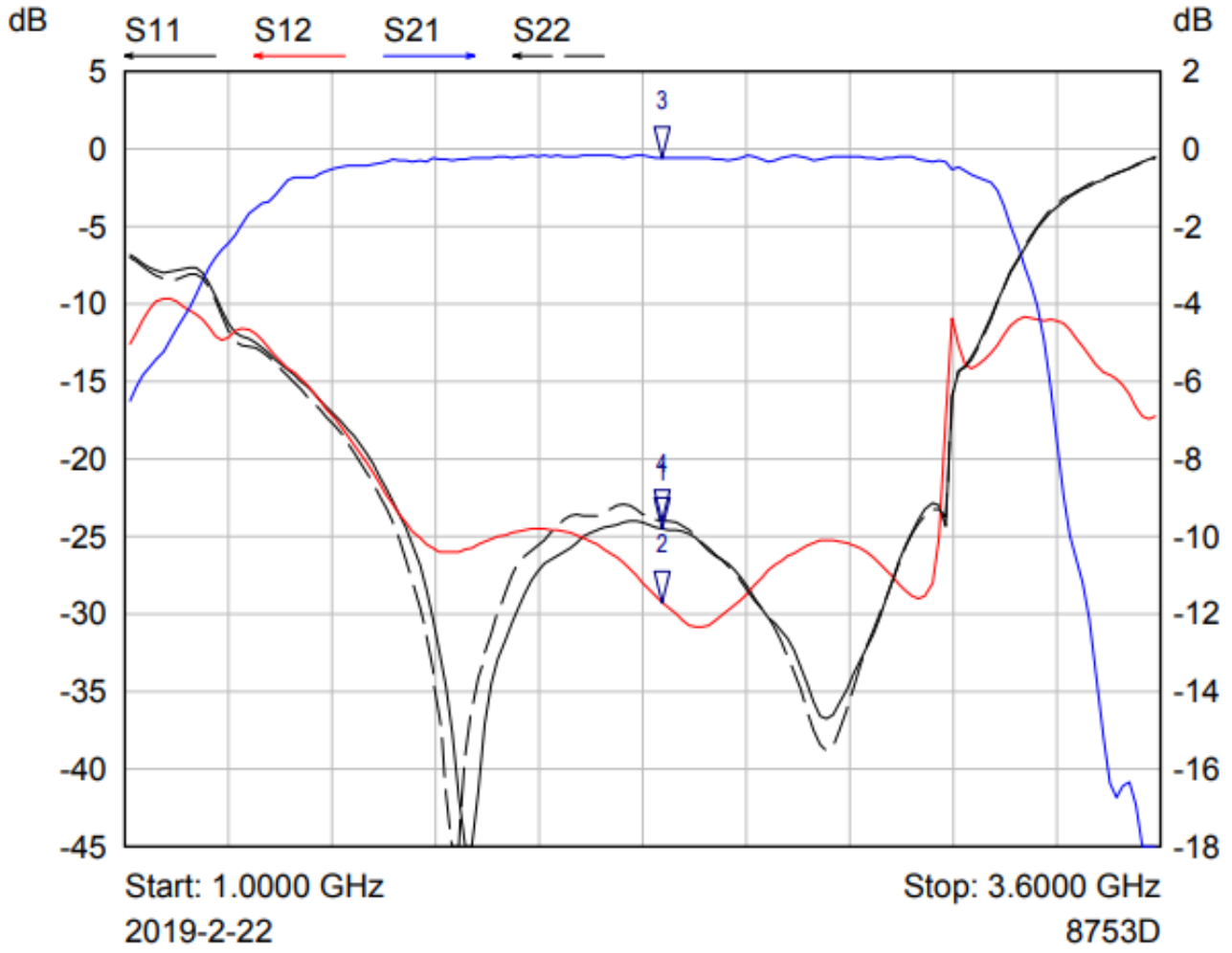
Parameter	Min.	Typ.	Max.	Units
Frequency Range	1.7 – 3			GHz
Insertion Loss			0.50	dB
Isolation (Note 1)	20			dB
VSWR			1.30	:1
Forward Power (CW)			50	W
Reverse Power (CW)			5	W
Rotation	Clockwise (Standard) Counter Clockwise (Upon Request)			
Input / Output Connectors	N-Female			
Finish	Nickel Plated			
Case Material	Aluminum Alloy			
Impedance	50			Ω

Ultra Wide Band Coaxial Isolator 1.7 ~ 3GHz

Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40℃~+70℃
Storage Temperature		-40℃~+85℃
Thermal Shock		1 Hour@ -45℃ → 1 Hour @ +85℃ (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85℃ 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

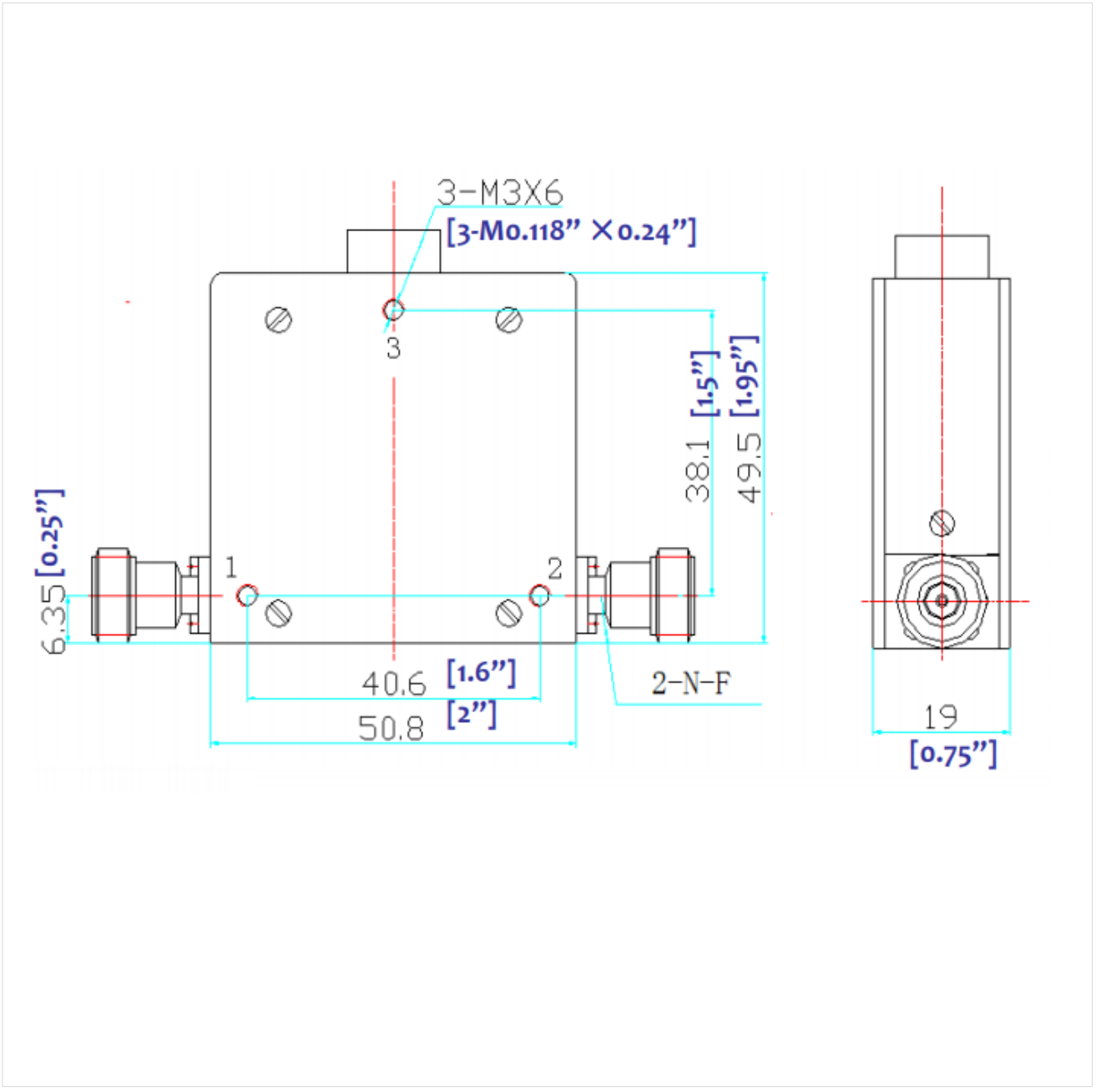


Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	2.3500 GHz	-24.54 dB	
2 ▽	S12	2.3500 GHz	-29.23 dB	
3 ▽	S21	2.3500 GHz	-0.24 dB	
4 ▽	S22	2.3500 GHz	-23.99 dB	

Ultra Wide Band Coaxial Isolator 1.7 ~ 3GHz

Outline Drawing:

All Dimensions in mm [inches]



Important Notice

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