

# Ultra Wide Band Coaxial Isolator 6~10GHz



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



#### **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, $T_A=25$ °C

Parameter	Min.	Тур.	Max.	Units
Frequency Range	6– 10 GHz			
Insertion Loss		0.55	0.60	dB
Isolation (Note 1)	17	18		dB
VSWR		1.30	1.33	: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	Aluminum Alloy			
Impedance	50 Ω			

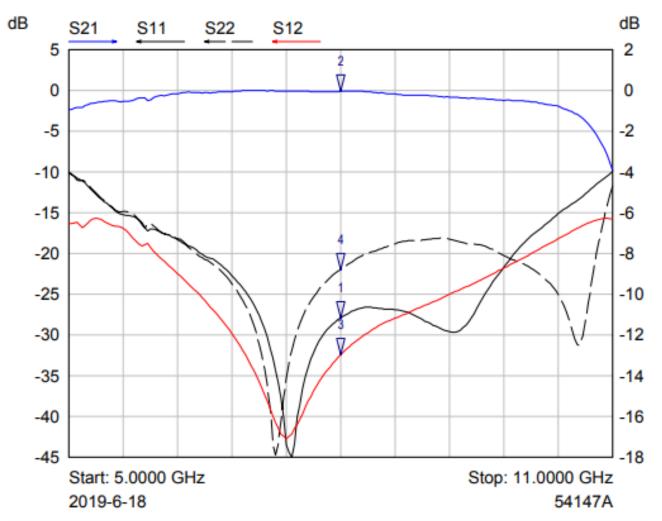


**Environmental Specifications and Test Standards** 

Parameter	Standard	Description
Operational Temperature		-20°C~+70°C
Storage Temperature		-40°C~+85°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration	MIL-STD-39016	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**

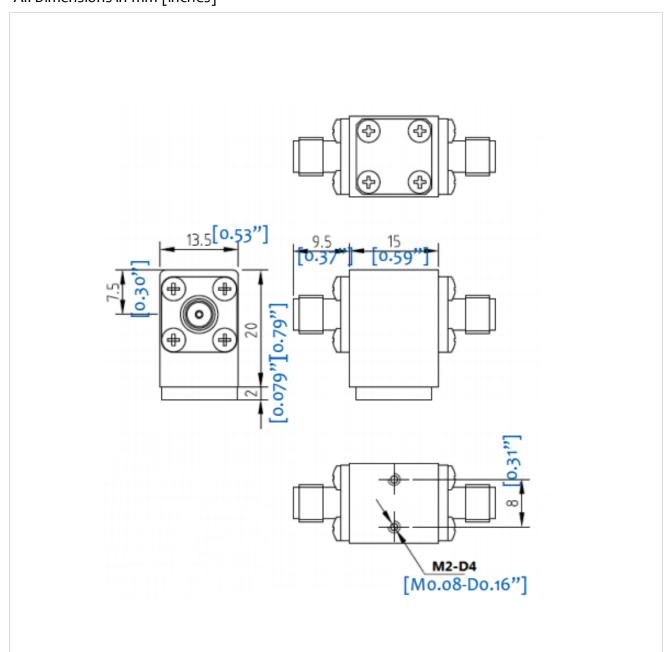


Mkr	Trace	X-Axis	Value	Notes
1 ₹	S11	8.0000 GHz	-27.93 dB	
2 ₹	S21	8.0000 GHz	-0.04 dB	
3 ₹	S12	8.0000 GHz	-32.43 dB	
4 ∇	S22	8.0000 GHz	-21.97 dB	



# **Outline Drawing:**

All Dimensions in mm [inches]



#### **Important Notice**

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