



Coaxial Isolator 500~800MHz

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	500 – 800			MHz
Insertion Loss		0.45	0.50	dB
Isolation (Note 1)	15	16		dB
VSWR		1.40	1.43	:1
Forward Power (CW)			50	W
Rotation	Clockwise (Standard) Counter Clockwise (Upon Request)			
Input / Output Connectors	SMA or N			
Finish	Nickel Plated			
Case Material	Aluminum Alloy / Copper			
Impedance	50			Ω

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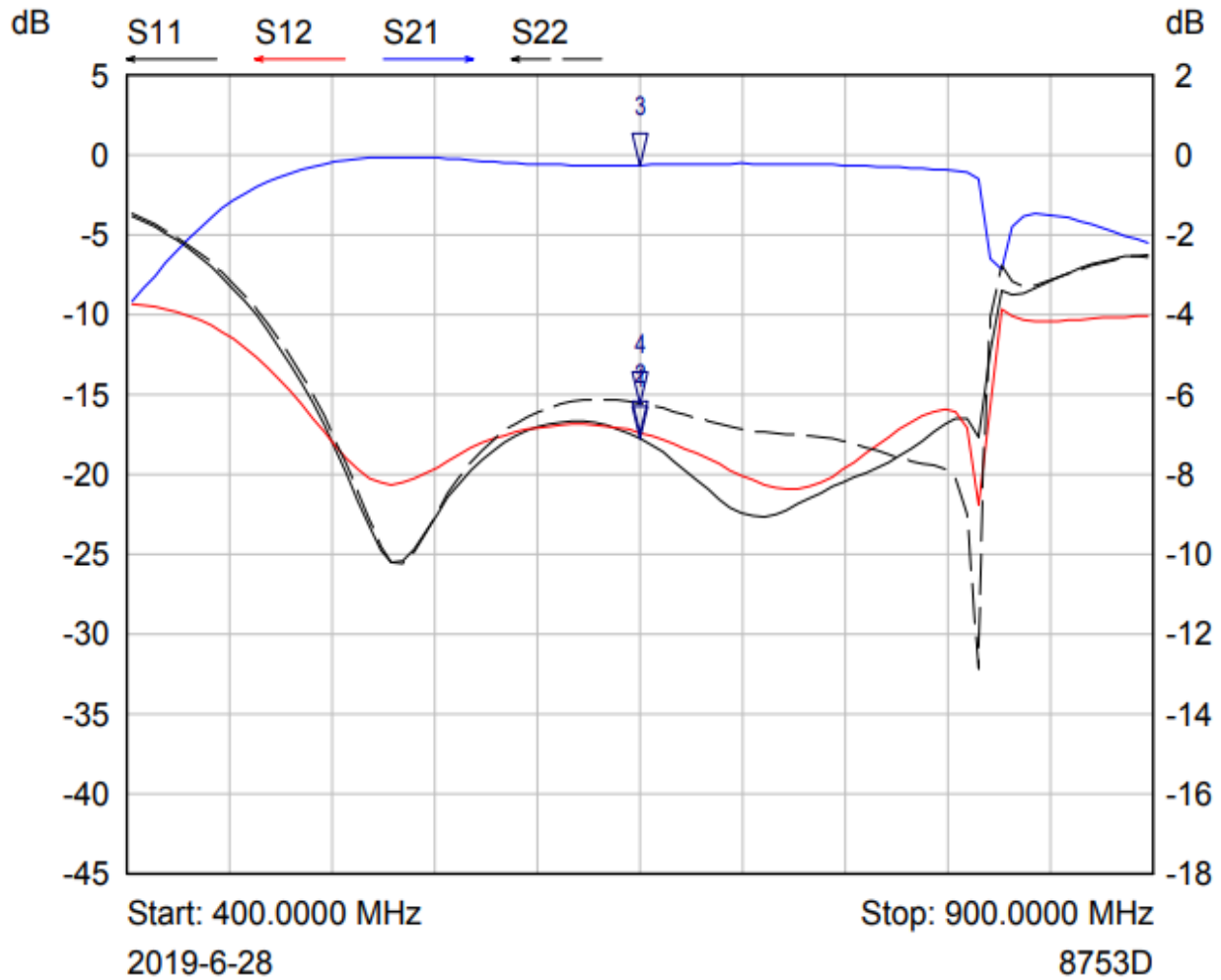
Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40°C~+85°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

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Typical Performance Plots



Mkr	Trace	X-Axis	Value	Notes
1 ▾	S11	650.0000 MHz	-17.75 dB	
2 ▾	S12	650.0000 MHz	-17.39 dB	
3 ▾	S21	650.0000 MHz	-0.25 dB	
4 ▾	S22	650.0000 MHz	-15.54 dB	

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