



Wide Band Coaxial Circulator 525 ~ 805MHz



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

Features

- High power handling up to 20W
- 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	525~805			MHz
Insertion Loss			0.8	dB
Isolation (Note 1)	15			dB
VSWR			1.45	:1
Power handling			20	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	SMA-Female			
Finish	Nickel Plated			
Case Material	Aluminum alloy			
Impedance	50			Ω

Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss
 Bandwidth (5 ~10) % x Center Frequency (Isolation >17dB)
 Bandwidth (20~30) % x Center Frequency (Isolation >16dB)
 Bandwidth (40~60) % x Center Frequency (Isolation >15dB)
 Ask manufacturer for details

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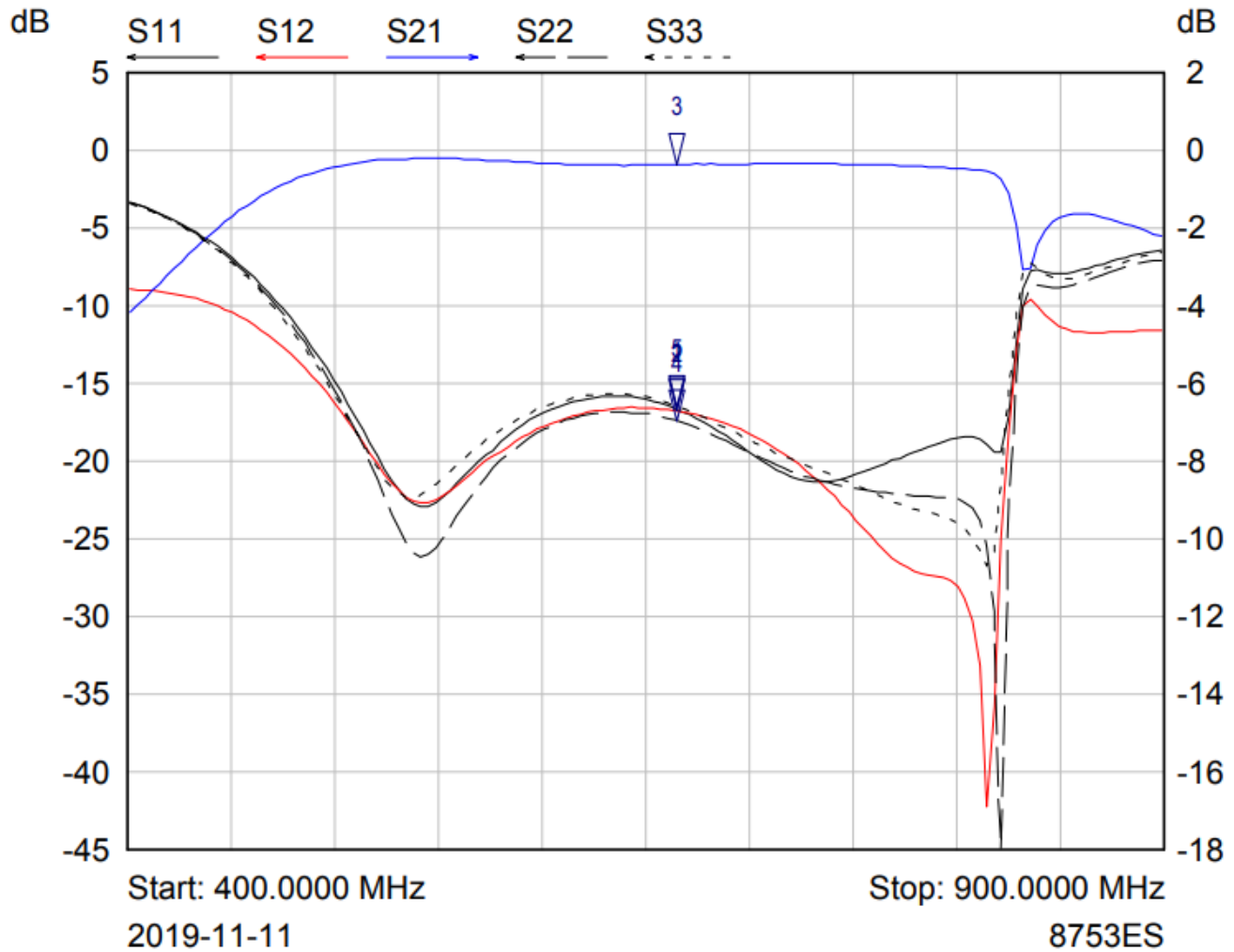
Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20°C~+60°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

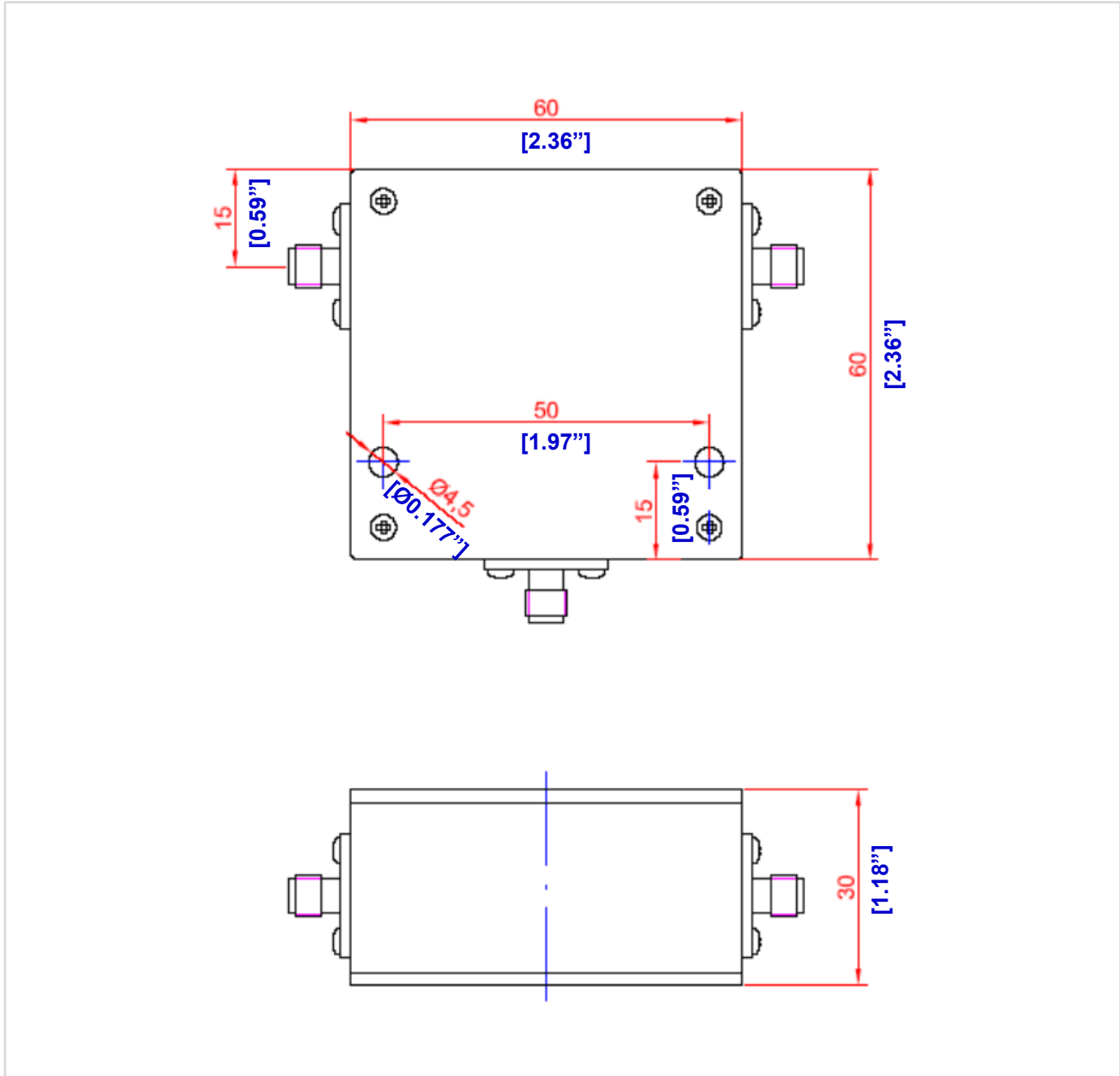


Mkr	Trace	X-Axis	Value	Notes
1 ▾	S11	665.0000 MHz	-16.64 dB	
2 ▾	S12	665.0000 MHz	-16.74 dB	
3 ▾	S21	665.0000 MHz	-0.36 dB	
4 ▾	S22	665.0000 MHz	-17.42 dB	
5 ▾	S33	665.0000 MHz	-16.45 dB	



Outline Drawing:

All Dimensions in mm [inches]



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