RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFC237W200M165

Wide Band Coaxial Circulator
150~ 180MHz

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

Features

- High power handling capability up to 200W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Stable performance over temperature

Typical Applications

- Aerospace and military applications
- Test and Measurement

Electrical Specifications, T_A=25 ℃

Parameter	Min.	Typ.	Max.	Units
Frequency Range		150~180		MHz
Insertion Loss		0.45	0.5	dB
Isolation	18	19		dB
VSWR		1.25	1.29	:1
Max RF Power (CW)			200	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Impedance		50		Ω

Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20℃~+60℃
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)

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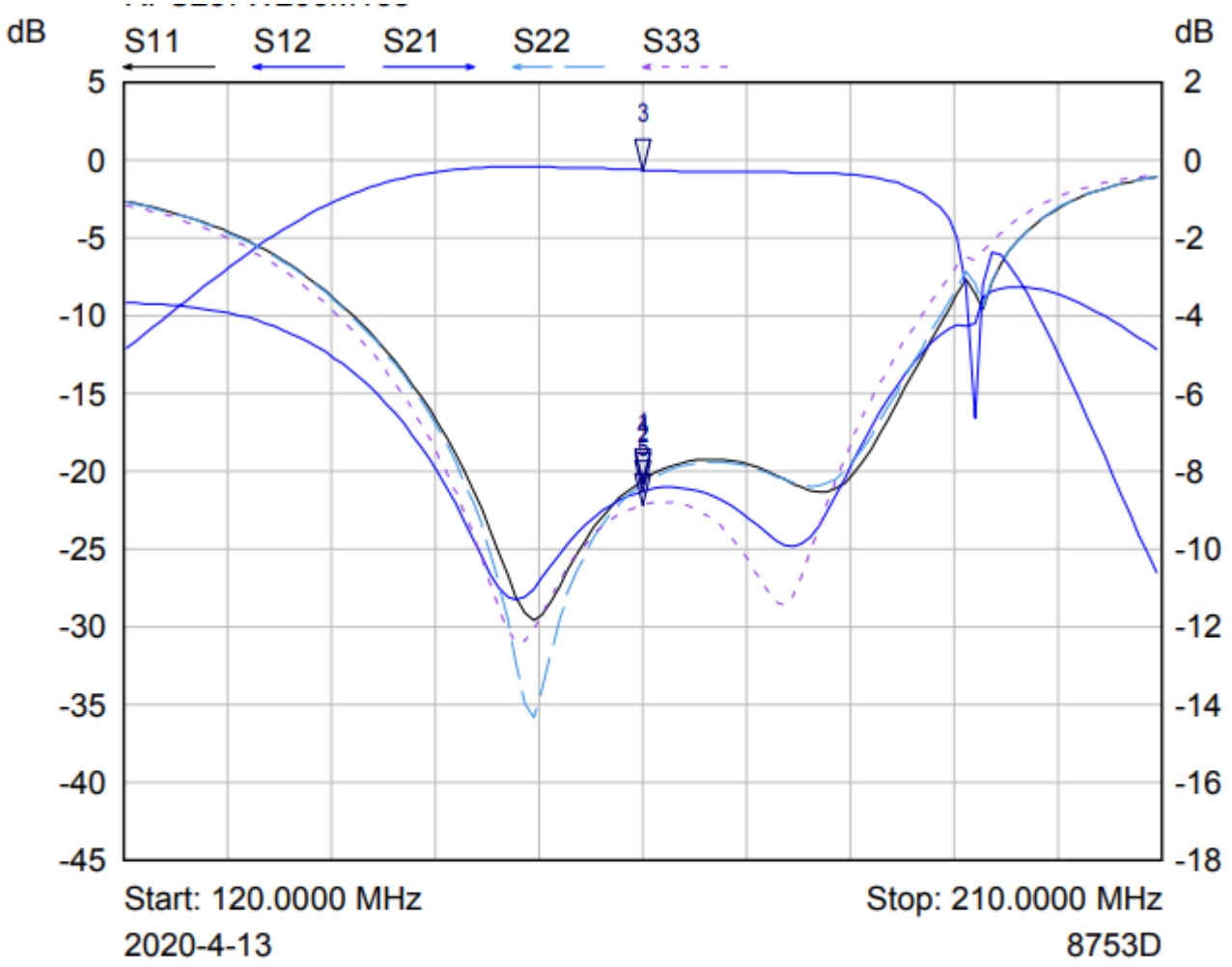
Typical Performance Plots



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	165.0000 MHz	-20.55 dB	
2 ▽	S12	165.0000 MHz	-21.27 dB	
3 ▽	S21	165.0000 MHz	-0.25 dB	
4 ▽	S22	165.0000 MHz	-20.83 dB	
5 ▽	S33	165.0000 MHz	-22.16 dB	

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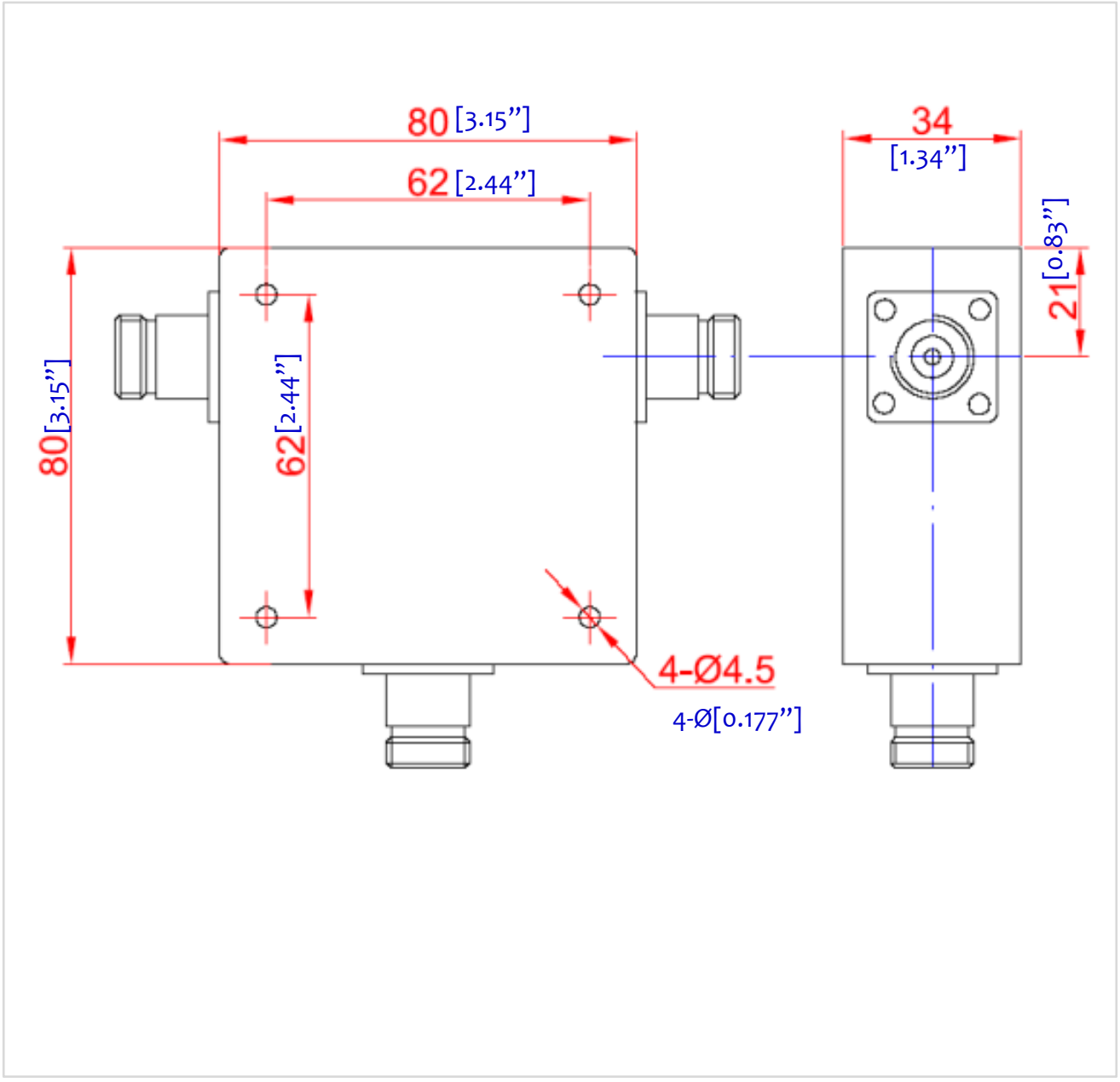
Outline Drawing:

All Dimensions in mm [inches]
Tolerance ±0.25 [0.01]



Important Notice

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