Wide Band High Power Circulator
285 – 315MHz

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

Features

- High power handling up to 500W
- Wide band operation
- 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	285 - 315			MHz
Insertion Loss			0.3	dB
Isolation (Note 1)	19			dB
VSWR			1.25	:1
Forward Power			500	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	N-Female			
Case Material	Aluminum Alloy			
Weight	----			ounces
Impedance	50			Ω

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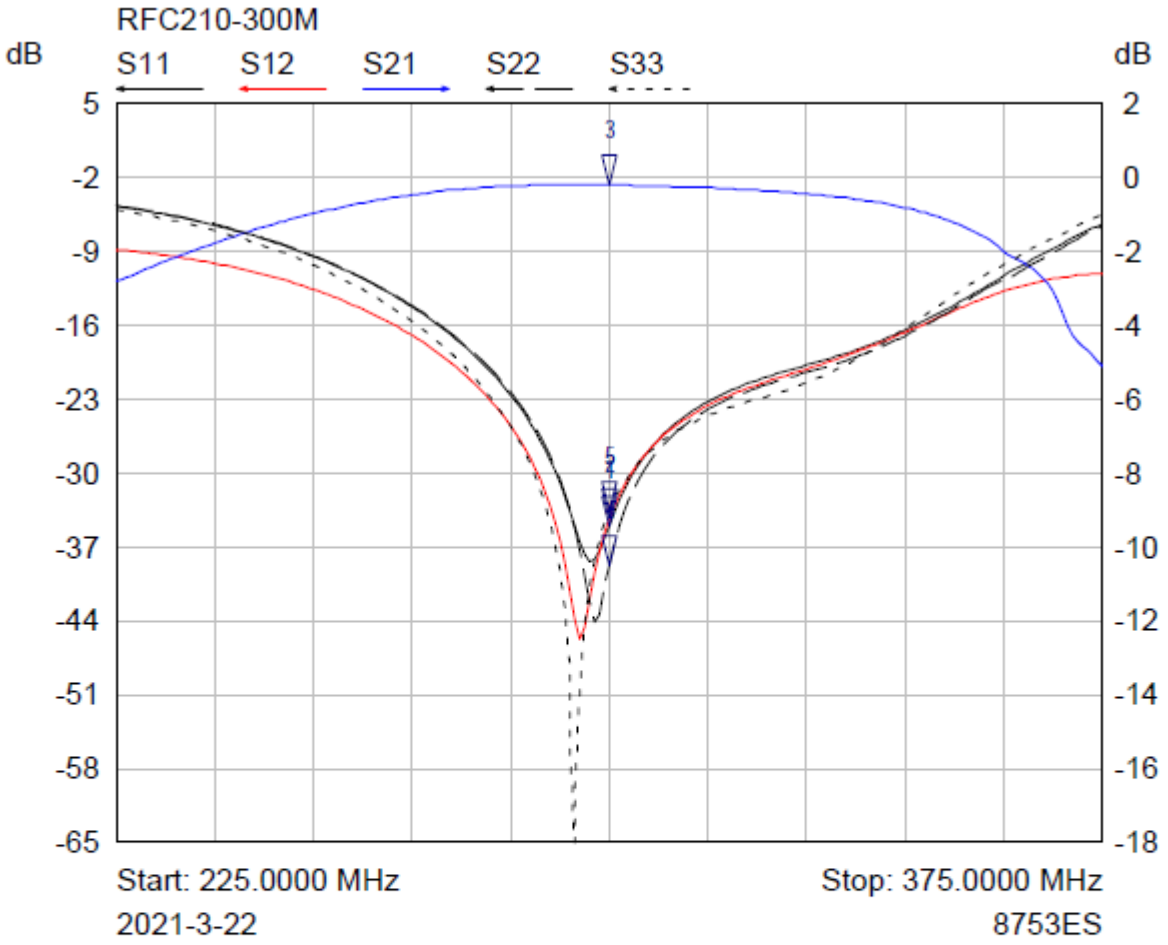
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40℃~+70℃ (Case Temperature)
Storage Temperature	-40℃~+85℃
Thermal Shock	-40℃ → +70℃ (5 Cycles / 10 hours)
Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +70℃ 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 (For Hermetically Sealed Units)

Typical Performance Plots



Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	300.0000 MHz	-34.97 dB	
2 ▽	S12	300.0000 MHz	-34.30 dB	
3 ▽	S21	300.0000 MHz	-0.20 dB	
4 ▽	S22	300.0000 MHz	-38.71 dB	
5 ▽	S33	300.0000 MHz	-33.62 dB	

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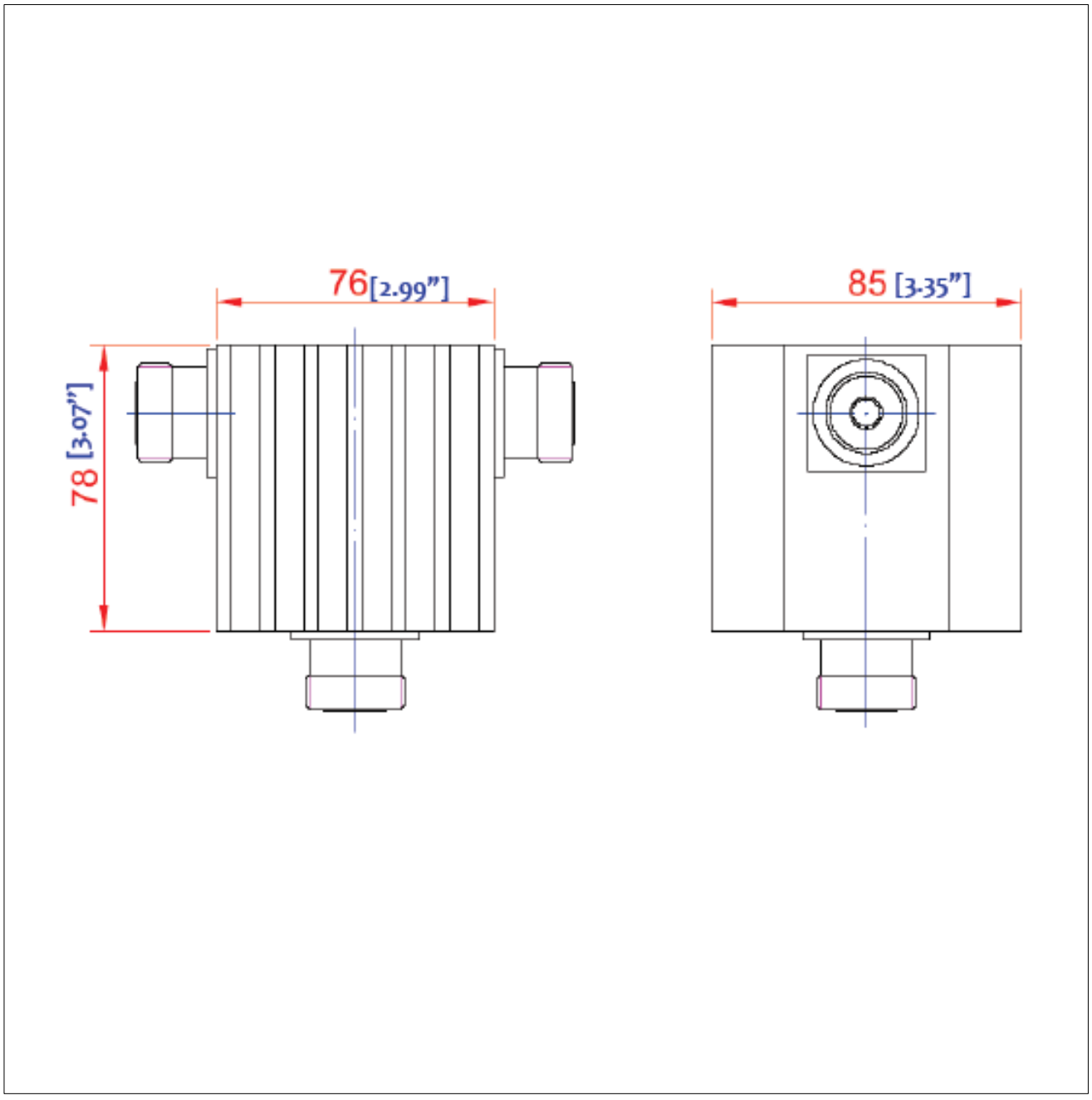
Outline Drawing:

All Dimensions in mm [inches]



Important Notice