

UHF Dual Junction Circulator 600~800MHz



Features

- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

Typical Applications

- Aerospace and military applications
- Test and Measurement
- Wireless infrastructure

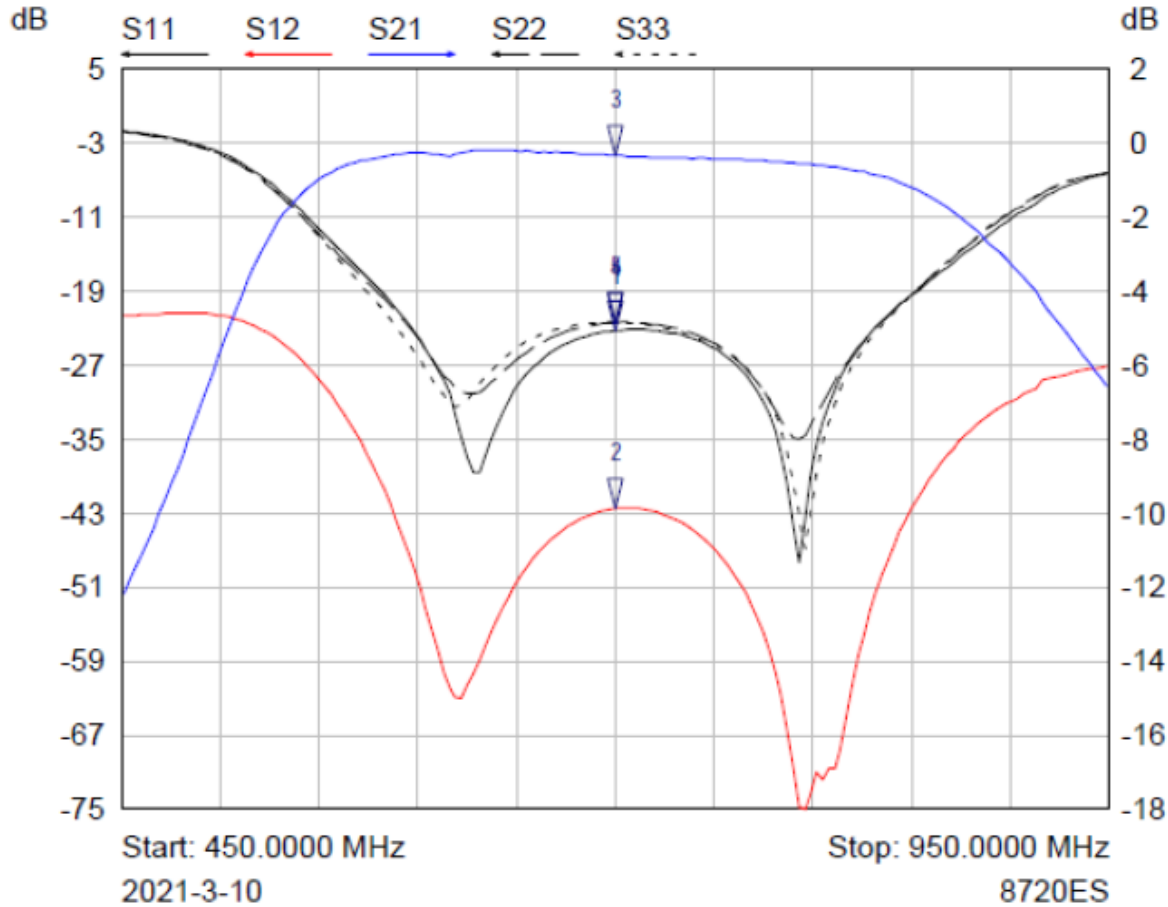
Electrical Specifications, $T_A=25\text{ }^\circ\text{C}$

Parameter	Min.	Typ.	Max.	Units
Frequency Range	600-800			MHz
Insertion Loss			0.8 (1→2) 0.5 (2→3)	dB
Isolation	38 (2→1) 19 (3→2)			dB
VSWR			1.25	:1
Power Handling (CW)			100	W
Reverse Power (CW)			10	W
Rotation	Clockwise (Standard) Counter Clockwise (Upon Request)			
Input / Output Connectors	N-Female			
Finish	Nickel Plated			
Case Material	Aluminum Alloy / Copper			
Impedance	50			Ω

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-20°C~+60°C (Case Temperature less than +75°C)
Storage Temperature	-50°C~+125°C
Thermal Shock	-20°C → +60°C (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 +75°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 (For Hermetically Sealed Units)

Typical Performance Plots

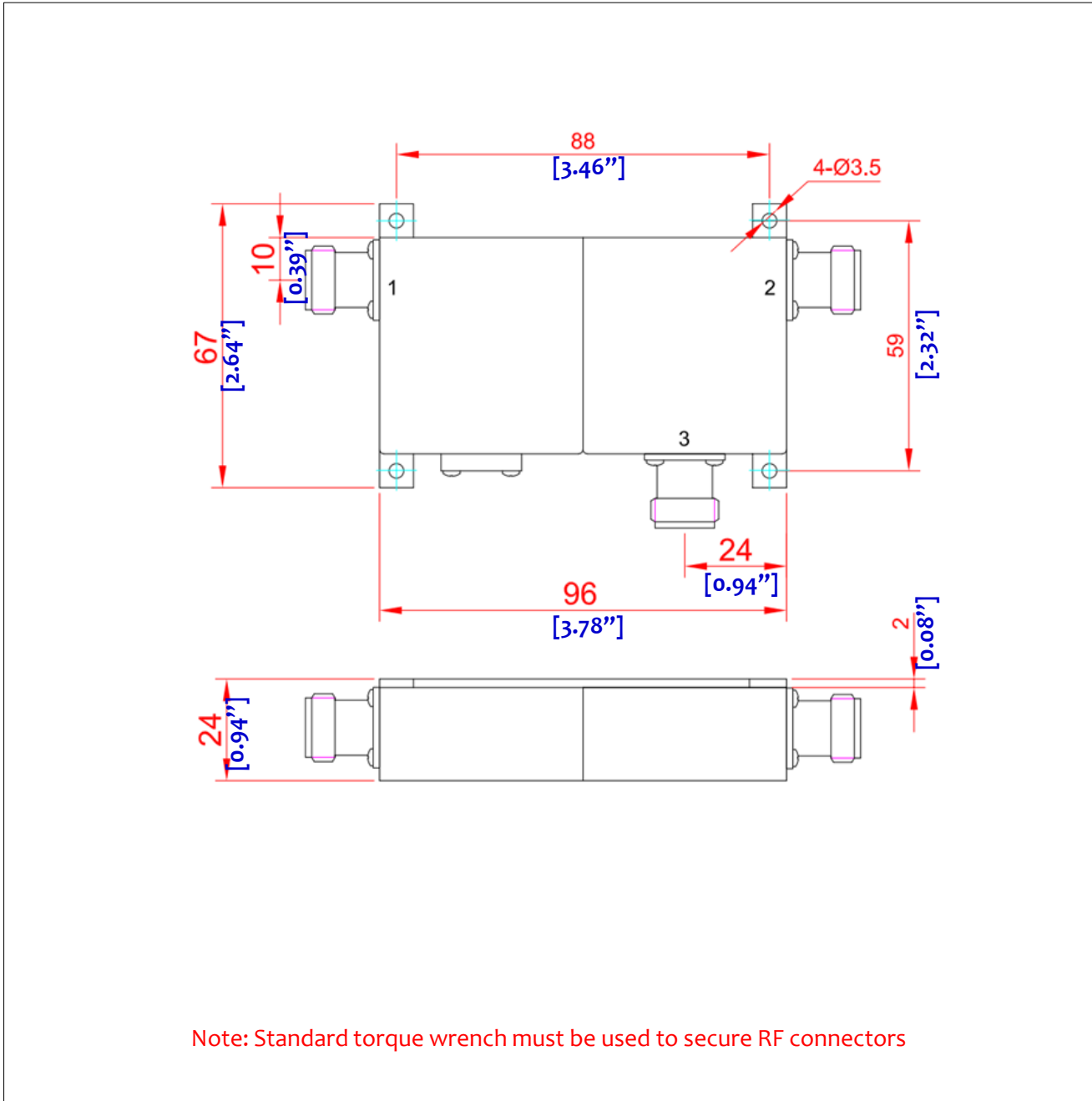


Mkr	Trace	X-Axis	Value	Notes
1 ▾	S11	700.0000 MHz	-23.28 dB	
2 ▾	S12	700.0000 MHz	-42.48 dB	
3 ▾	S21	700.0000 MHz	-0.34 dB	
4 ▾	S22	700.0000 MHz	-22.43 dB	
5 ▾	S33	700.0000 MHz	-22.39 dB	

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Outline Drawing:

All Dimensions in mm



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