

## High Power Wideband Coaxial Circulator 4.9 - 6GHz



### Features

- Wide Band High Power Circulator
- 600W Power Handling Capability
- Wide band operation
- High isolation
- Low Insertion Loss

### Typical Applications

- Wireless Infrastructure
- Test and Measurement
- Military and Aerospace

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

Parameter	Min.	Typ.	Max.	Units
Frequency Range	4.9 - 6			GHz
Insertion Loss			0.50	dB
Isolation (Note 1)	19			dB
VSWR			1.25	:1
Power Handling			600	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	N-Female			
Finish	Conductive Oxide			
Case Material	Aluminum Alloy			
Impedance	50			$\Omega$

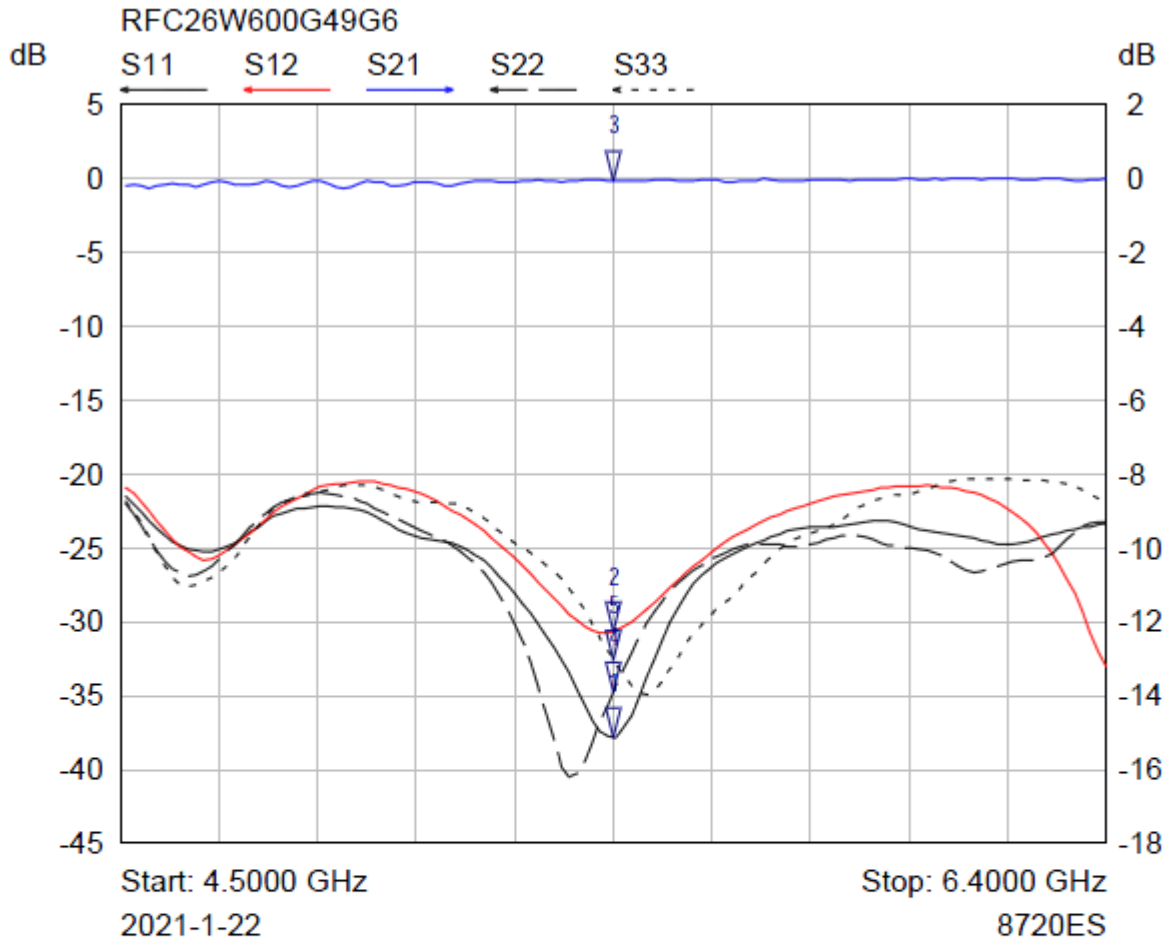
Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss  
 Bandwidth (5 ~ 10) % x Center Frequency (Isolation > 23dB)  
 Bandwidth (20 ~ 30) % x Center Frequency (Isolation > 21dB)  
 Bandwidth (40 ~ 60) % x Center Frequency (Isolation > 20dB)  
 Ask manufacturer for details

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**Environmental Specifications and Test Standards**

Parameter	Description
Operational Temperature	-20°C~+45°C (Case Temperature)
Storage Temperature	-40°C~+85°C
Thermal Shock	-20°C → +45°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 +60°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



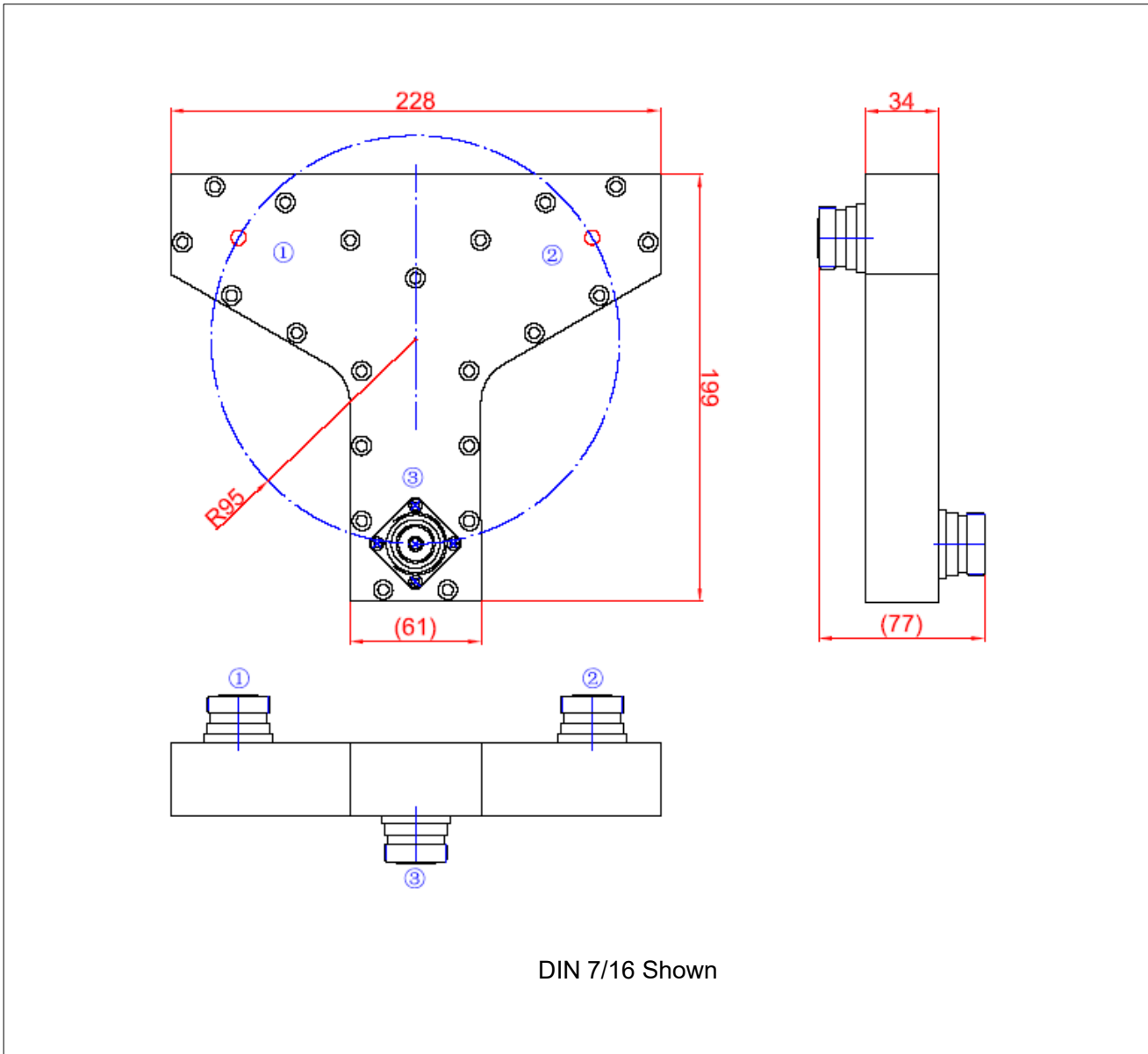
Mkr	Trace	X-Axis	Value	Notes
1 ▾	S11	5.4500 GHz	-37.81 dB	
2 ▾	S12	5.4500 GHz	-30.63 dB	
3 ▾	S21	5.4500 GHz	-0.06 dB	
4 ▾	S22	5.4500 GHz	-34.77 dB	
5 ▾	S33	5.4500 GHz	-32.58 dB	

SN:20210101

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**Outline Drawing:**

All Dimensions in mm [inches]



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