



Coaxial Circulator 5.4 - 5.9GHz

Features

- High power handling capability up to 600W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature
- Aerospace and military applications
- LMDS multi-carrier operation
- High peak to average handling capability
- All specifications can be modified upon request



Electrical Specifications, T_A=25 °C

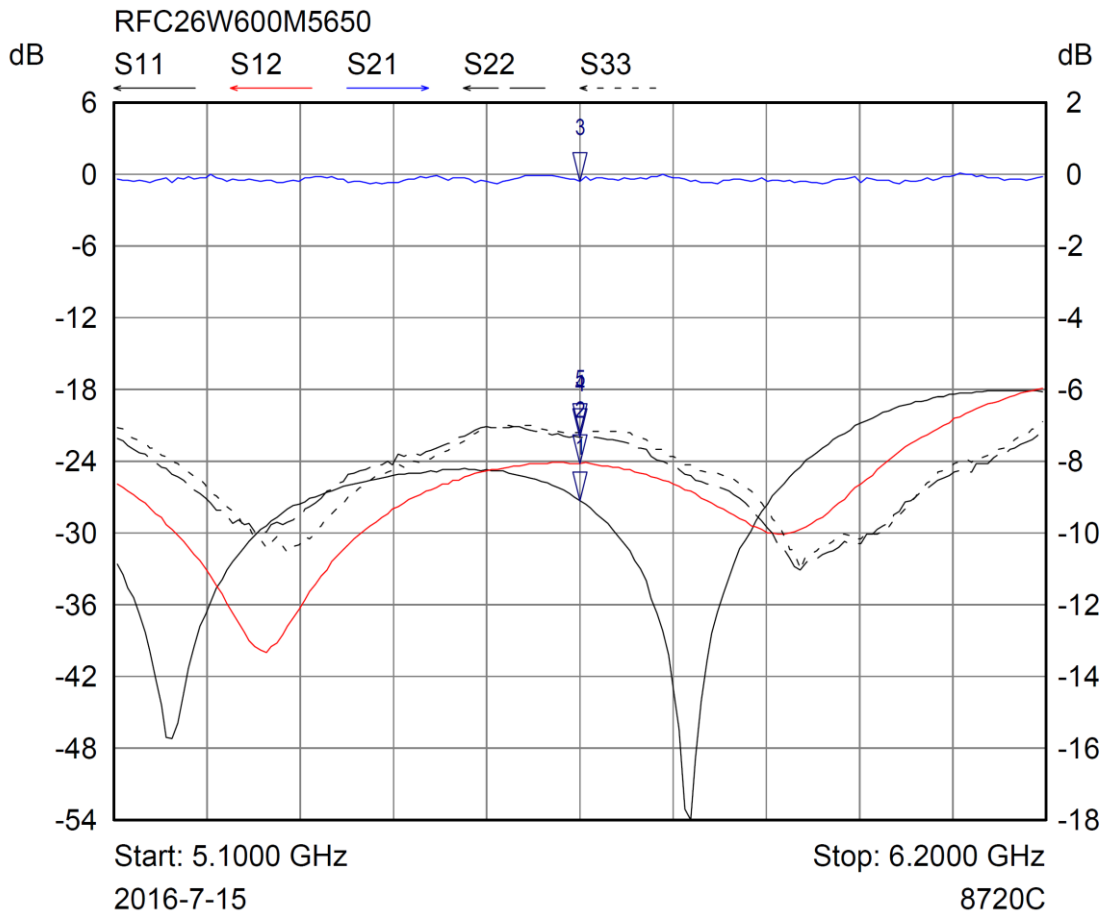
Parameter	Min	Typ	Max	Units
Frequency Range	5.4 - 5.9			GHz
Insertion Loss			0.50	dB
Isolation (Note 1)	19			dB
VSWR			1.25	: 1
Power handling			600	W
Peak power handling			12	KW
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	DIN 7/16 (Female)			
Finishing	conductive oxide (not painted)			
Case Material	Aluminum alloy			
Weight				ounces
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 > 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

Operational Temperature (°C)	-10 ~ +50
Storage Temperature (°C)	-40 ~ +85
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msec half sine wave, 3 axis both directions



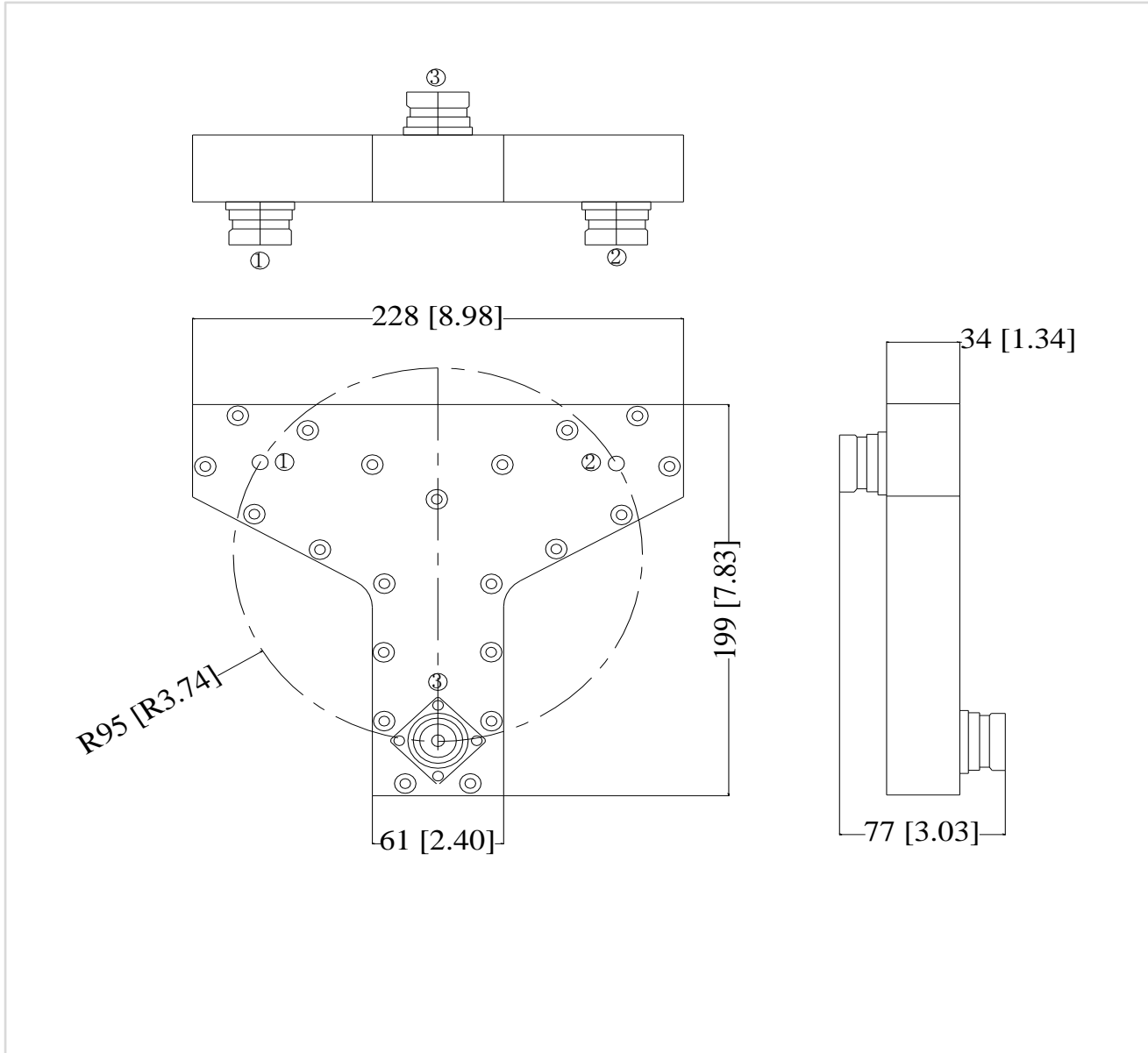
Mkr	Trace	X-Axis	Value	Notes
1 ▾	S11	5.6500 GHz	-27.28 dB	
2 ▾	S12	5.6500 GHz	-24.19 dB	
3 ▾	S21	5.6500 GHz	-0.19 dB	
4 ▾	S22	5.6500 GHz	-22.03 dB	
5 ▾	S33	5.6500 GHz	-21.61 dB	

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Outline Drawing:

All Dimensions in mm [inches]



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