

Wide Band Coaxial Circulator 1.63~2.63GHz



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

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

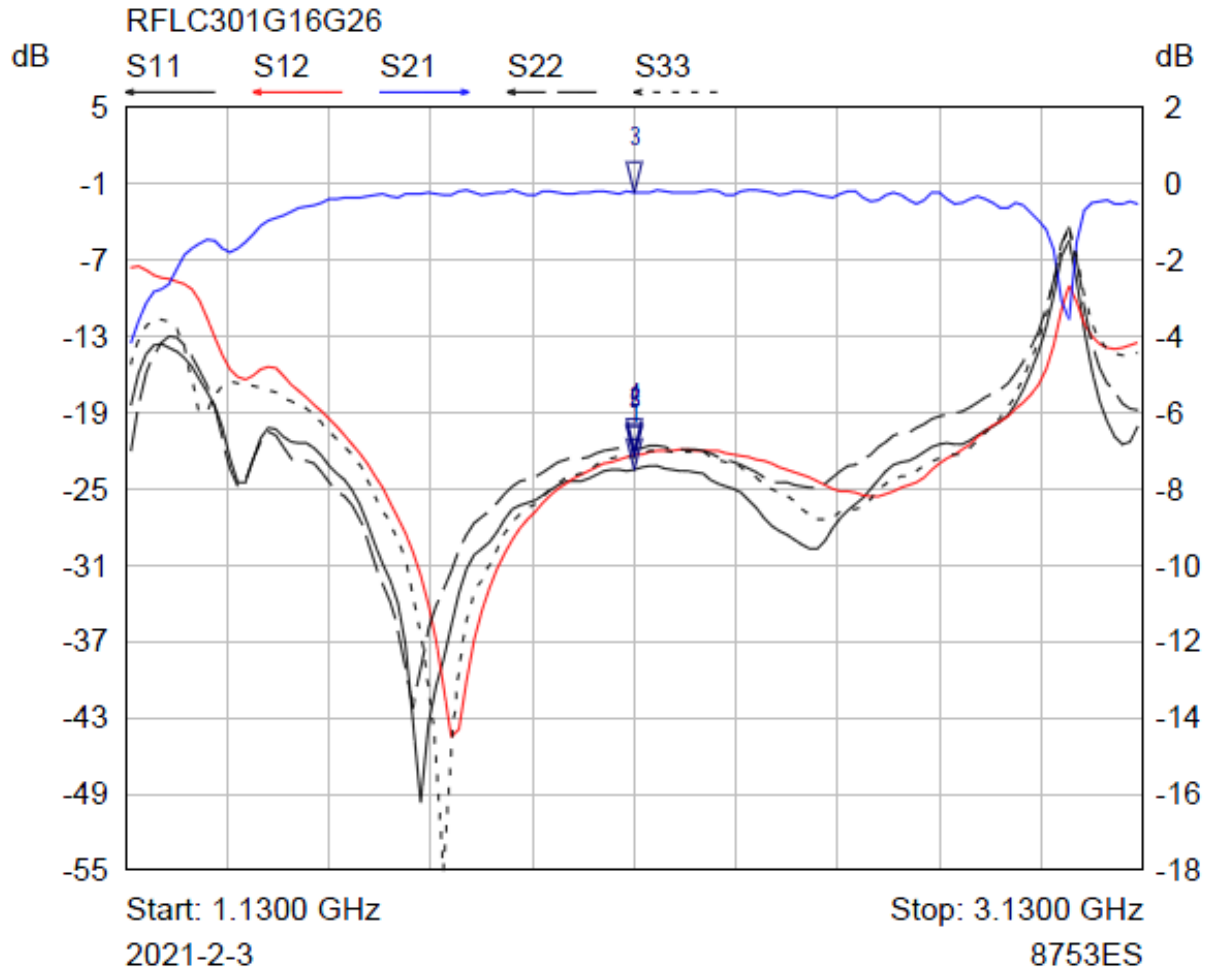
Parameter	Min.	Typ.	Max.	Units
Frequency Range	1.63-2.63			GHz
Insertion Loss		0.35	0.4	dB
Isolation (Note 1)	20	21		dB
VSWR		1.19	1.25	:1
Forward Power (CW)			100	W
Rotation	Clockwise (Standard) Counter Clockwise (Upon Request)			
Input / Output Connectors	RFLC301G16G26S (SMA-Female) RFLC301G16G26N (N-Female)			
Finish	Nickel Plated			
Case Material	Aluminum Alloy / Copper			
Impedance	50			Ω
<p>Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss</p> <p>Bandwidth (5 ~10) % x Center Frequency (Isolation >23dB)</p> <p>Bandwidth (20~30) % x Center Frequency (Isolation >21dB)</p> <p>Bandwidth (40~60) % x Center Frequency (Isolation >20dB)</p> <p>Ask manufacturer for details</p>				

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-10°C~+80°C (Case Temperature)
Storage Temperature	-40°C~+85°C
Thermal Shock	-10°C → +80°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)

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Typical Performance Plots



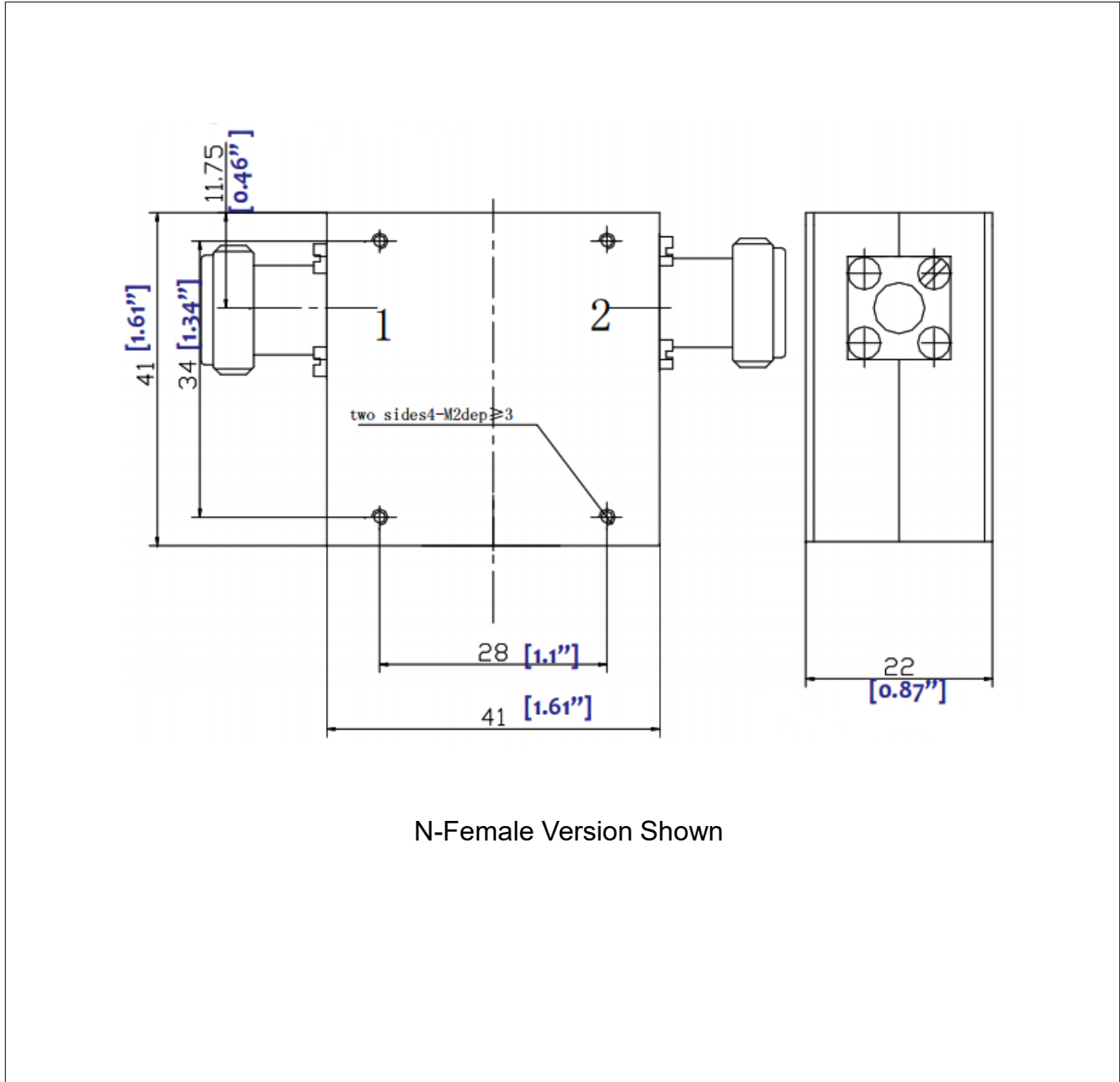
Mkr	Trace	X-Axis	Value	Notes
1 ▾	S11	2.1300 GHz	-23.54 dB	
2 ▾	S12	2.1300 GHz	-22.34 dB	
3 ▾	S21	2.1300 GHz	-0.22 dB	
4 ▾	S22	2.1300 GHz	-21.91 dB	
5 ▾	S33	2.1300 GHz	-22.46 dB	

SN:210210

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Outline Drawing:

All Dimensions in mm [inches]



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