



Ultra Wide Band Circulator 9.1~9.6GHz



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



Features

- High power handling capability up to 50W
- High isolation within operational band
- Low Insertion loss
- Stable performance over temperature
- High peak to average handling capability

Typical Applications

- Aerospace and military applications
- LMDS multi-carrier operation

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

Parameter	Min.	Typ.	Max.	Units
Frequency Range	9.1~9.6			GHz
Insertion Loss			0.4	dB
Reverse Isolation	45			dB
VSWR			1.25	:1
Forward Power (CW)			50	W
Reverse Power (CW)			5	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	SMA- Female (RFLC504G91G96) N-Female (RFLC504G91G96N)			
Finish	Nickel Plated			
Case Material	Aluminum Alloy			
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 >48dB)
 Bandwidth (20~30) % x Center Frequency (Isolation >47dB)
 Bandwidth (40~60) % x Center Frequency (Isolation >46dB)
 Ask manufacturer for details



Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20°C~+60°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°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

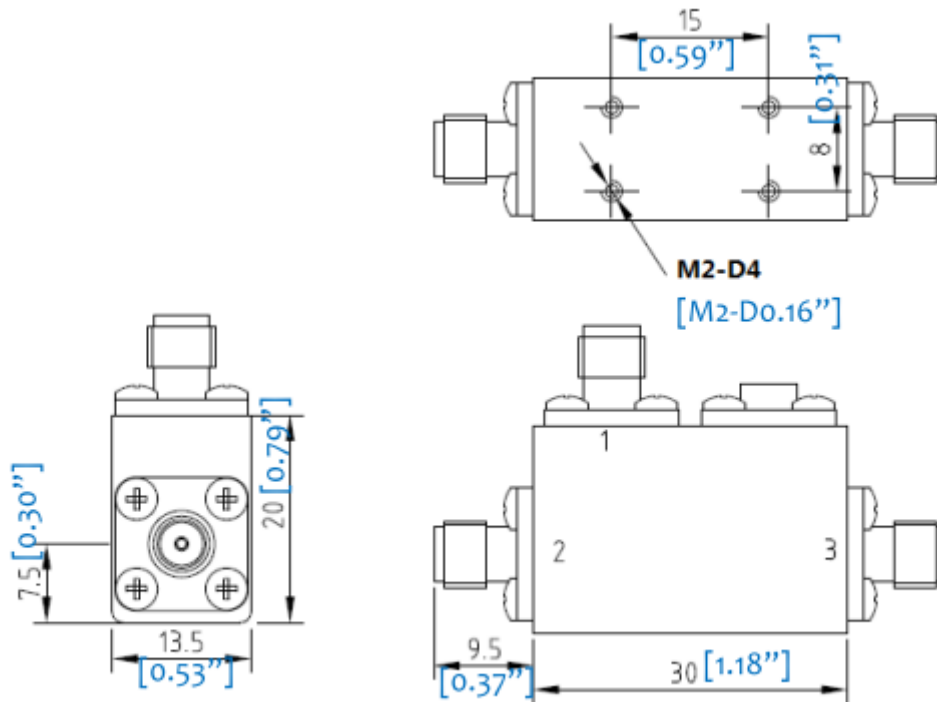
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Outline Drawing:

All Dimensions in mm [inches]

SMA-Female Version
(RFLC504G91G96)



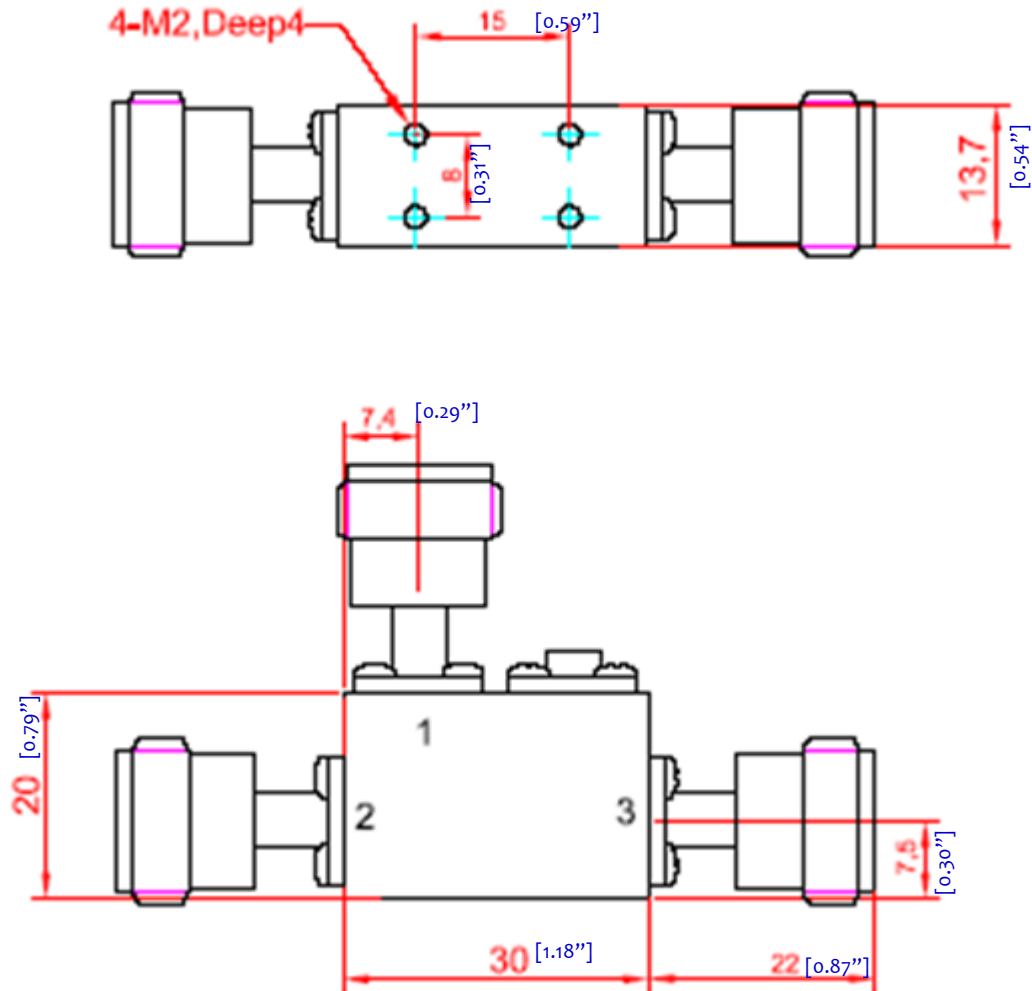
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Outline Drawing:

All Dimensions in mm [inches]

N-Female Version
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