



### Wide Band Coaxial Circulator 163 – 168MHz



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



#### Features

- High power handling up to 100W
- High isolation
- Low Insertion Loss
- Stable performance over temperature

#### Typical Applications

- Aerospace and military applications
- LMDS multi-carrier operation

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

Parameter	Min.	Typ.	Max.	Units
Frequency Range	163~168			MHz
Insertion Loss			0.5	dB
Reverse Isolation	19			dB
VSWR			1.25	:1
Power Handling (CW)			100	W
Rotation	Clockwise (Standard) Counter Clockwise (Upon Request)			
Input / Output Connectors	N for N(f), S for SMA(f)			
Case Material	Aluminum Alloy			
Weight	-----			ounces
Impedance	50			$\Omega$

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**Environmental Specifications and Test Standards**

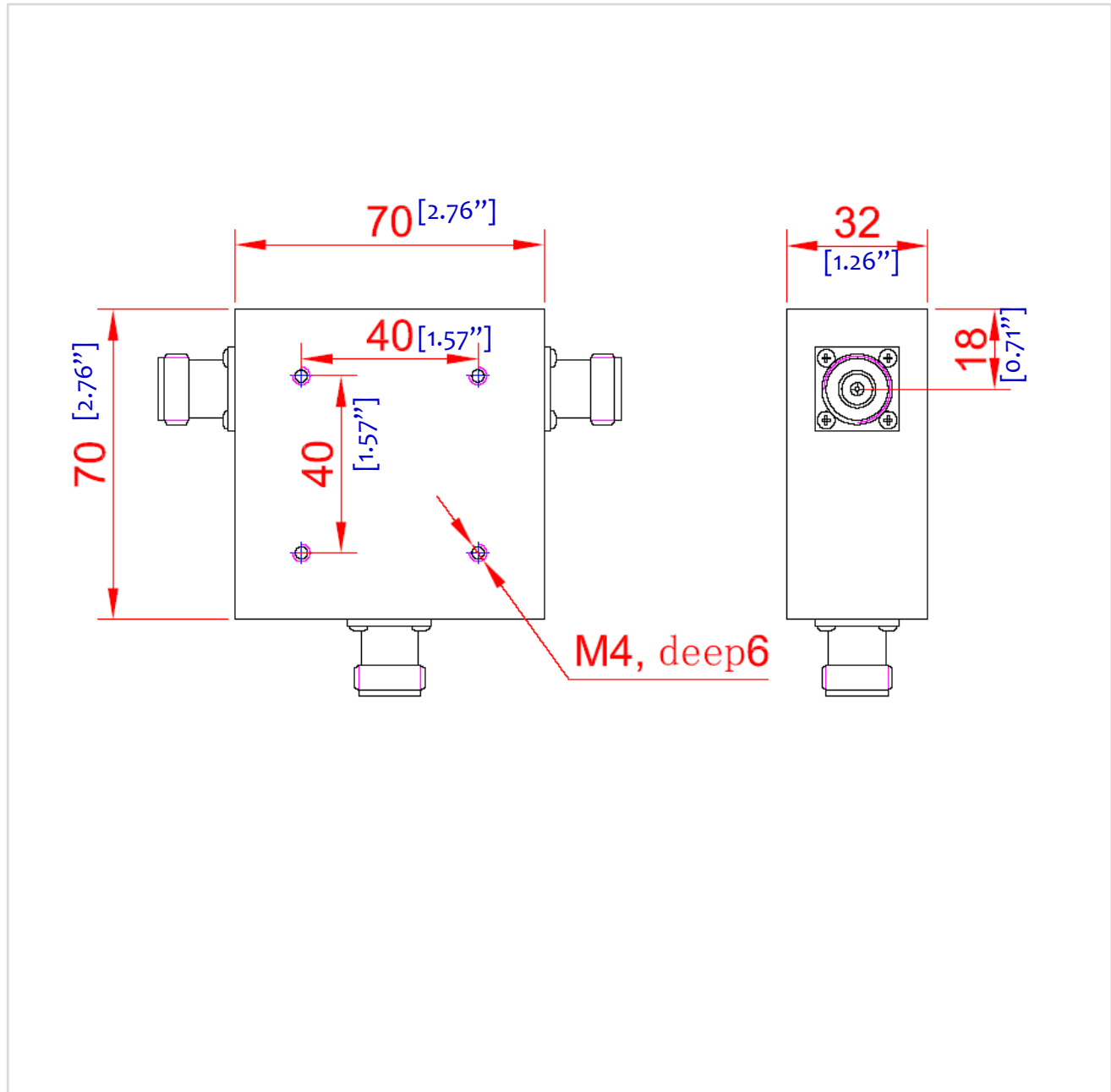
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20°C~+60°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 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]



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