Narrow Band Coaxial Circulator
0.8 – 1.7GHz (50MHz BW)

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

Features

- High power handling up to 50W
- High isolation within operational band
- Low Insertion Loss

Typical Applications

- Aerospace and military applications
- Wireless Infrastructure
- Test and Measurement

Electrical Specifications, T_A=25 ℃

Parameter	Min.	Typ.	Max.	Units
Frequency Range	0.8~1.7 (See Functional Bandwidth Below)			GHz
Functional Bandwidth	50 (Please Specify Start and Stop Frequency)			MHz
Insertion Loss 1 -> 2			0.5	dB
Insertion Loss 3 -> 1			1.0	dB
Isolation 1 -> 3	50			dB
Isolation 2 -> 1	25			dB
VSWR			1.25	:1
Forward Power (CW)			50	W
Internal Load Power (CW)			20	W
Rotation	Clockwise (Standard) Counter Clockwise (Upon Request)			
Input / Output Connectors	N-Female			
Finish	Conductive Oxidation			
Case Material	Aluminum Alloy			
Weight	11.84			ounces
Impedance	50			Ω

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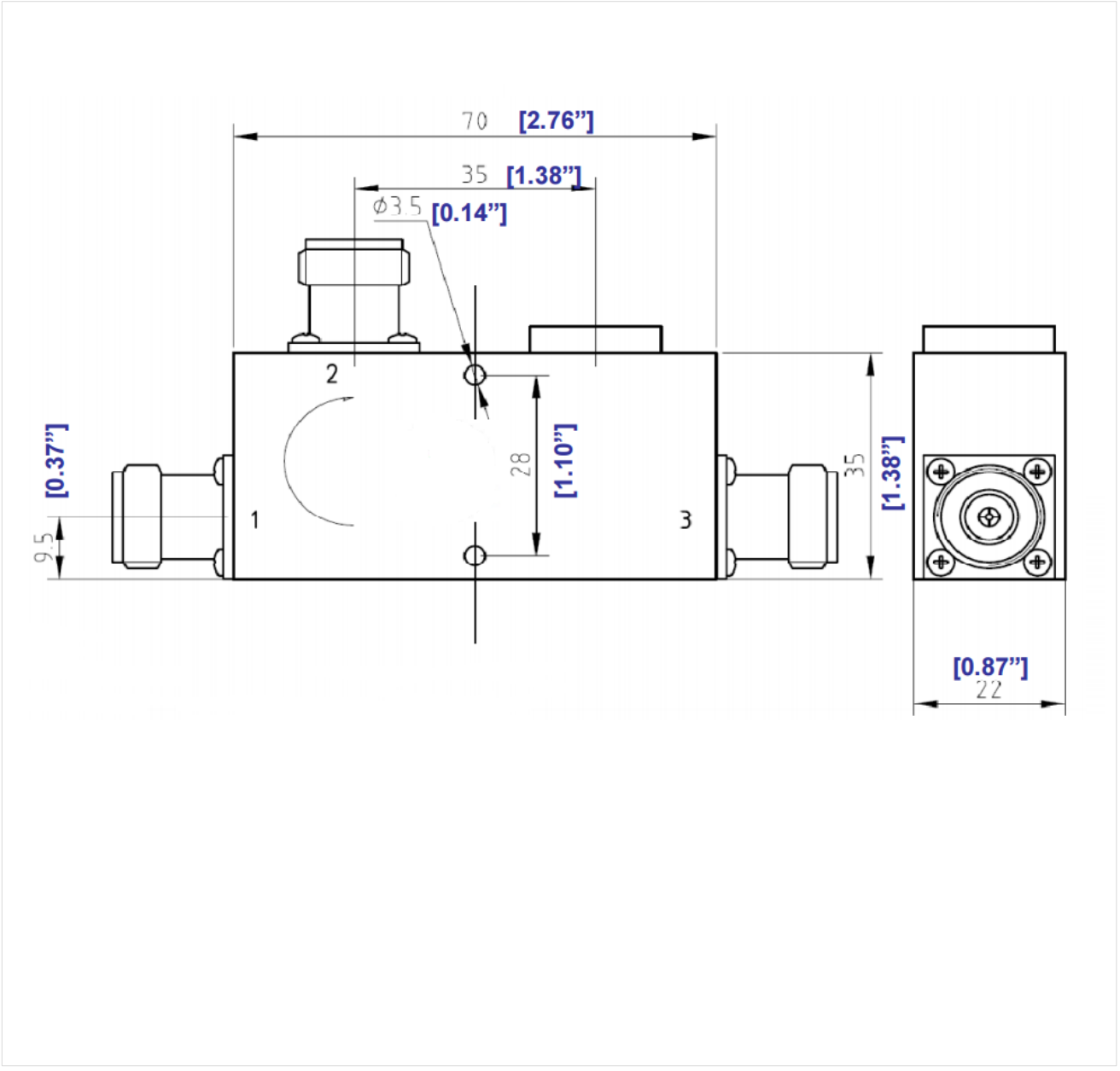
Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40℃~+85℃
Storage Temperature		-55℃~+125℃
Thermal Shock		1 Hour@ -45℃ → 1 Hour @ +85℃ (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85℃ 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	MIL-STD-883 (For Hermetically Sealed Units)

Outline Drawing:

All Dimensions in mm [inches]



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