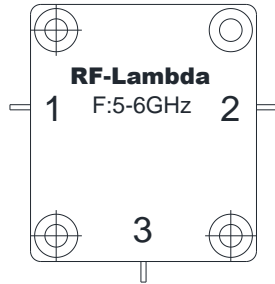




Wide Band Drop-in Circulator 5 - 6GHz



Features

- High power handling up to 50W
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

Typical Applications

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

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

Parameter	Min	Typ.	Max	Units
Frequency Range	5-6			GHz
Insertion Loss			0.35	dB
Isolation (Note 1)	20			dB
VSWR			1.25	:1
Forward Power (CW)			50	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	Drop-in			
Finish	Nickel Plated			
Case Material	Aluminum Alloy			
Weight		100		g
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

Wide Band Drop-in Circulator 5 - 6GHz



Environmental Specifications and Test Standards

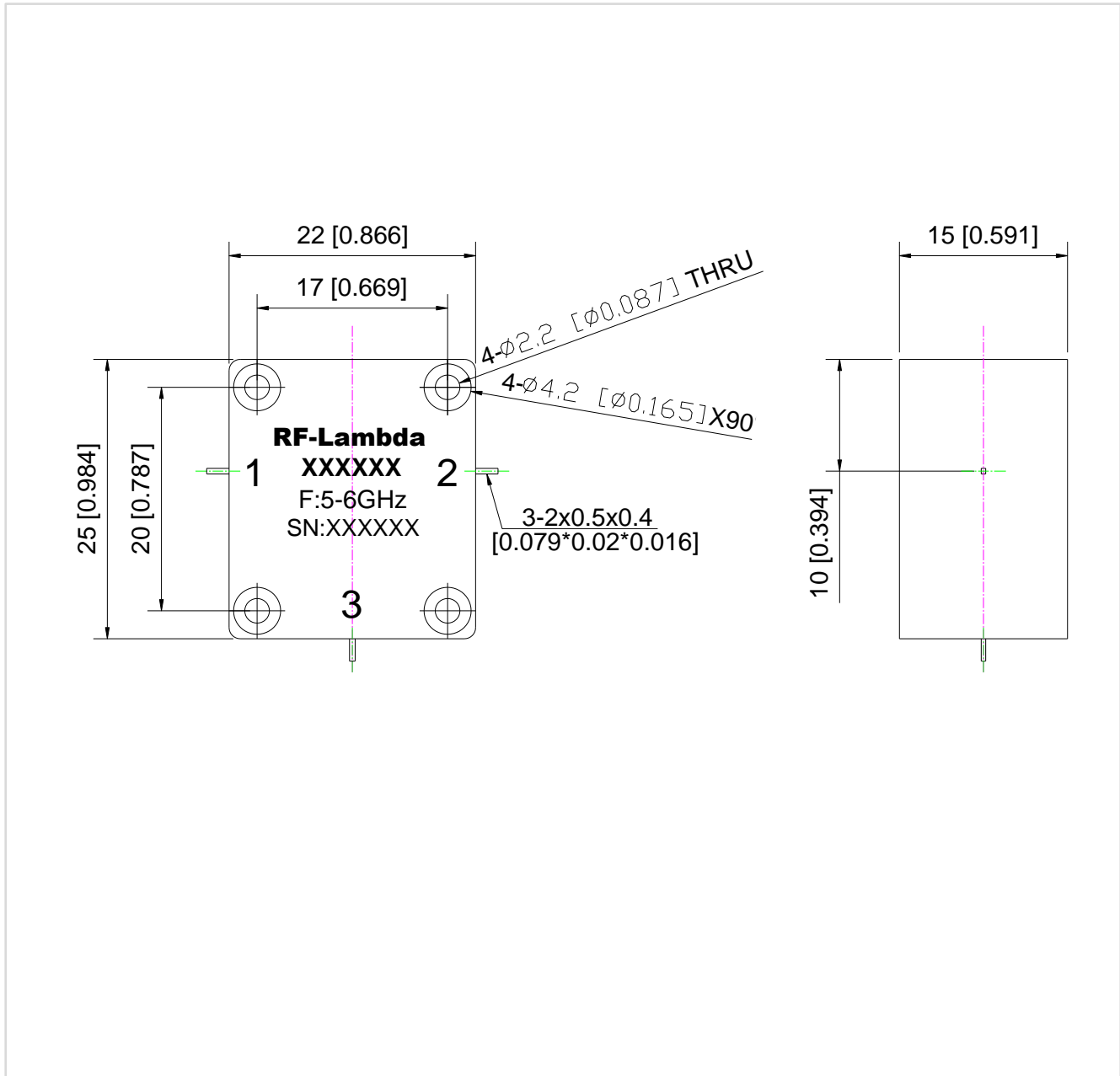
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20°C~+70°C
Storage Temperature		-40°C~+85°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 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

Wide Band Drop-in Circulator 5 - 6GHz



Outline Drawing:

All Dimensions in mm [inches]



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Important Notice

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