



1KW High Power Circulator 59.5 – 60.5MHz

Features

- High power handling capability up to 1000W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

Typical Applications

- Aerospace and military applications
- LMDS multi-carrier operation
- Test and Measurement



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

Parameter	Min	Typ	Max	Units
Frequency Range	59.5 – 60.5			MHz
Insertion Loss			0.4	dB
Isolation	20			dB
VSWR			1.2	: 1
Power handling (CW)			1000	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	DIN 7/16 (Female)			
Maximum Reflected Power	Total Reflection (Any Phase)			
Cooling	Water Cooling			
Case Material	Aluminum alloy			
Weight	-----			ounces
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

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Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40°C~+50°C (Case must be +60°C Maximum) Water Cooling Recommended
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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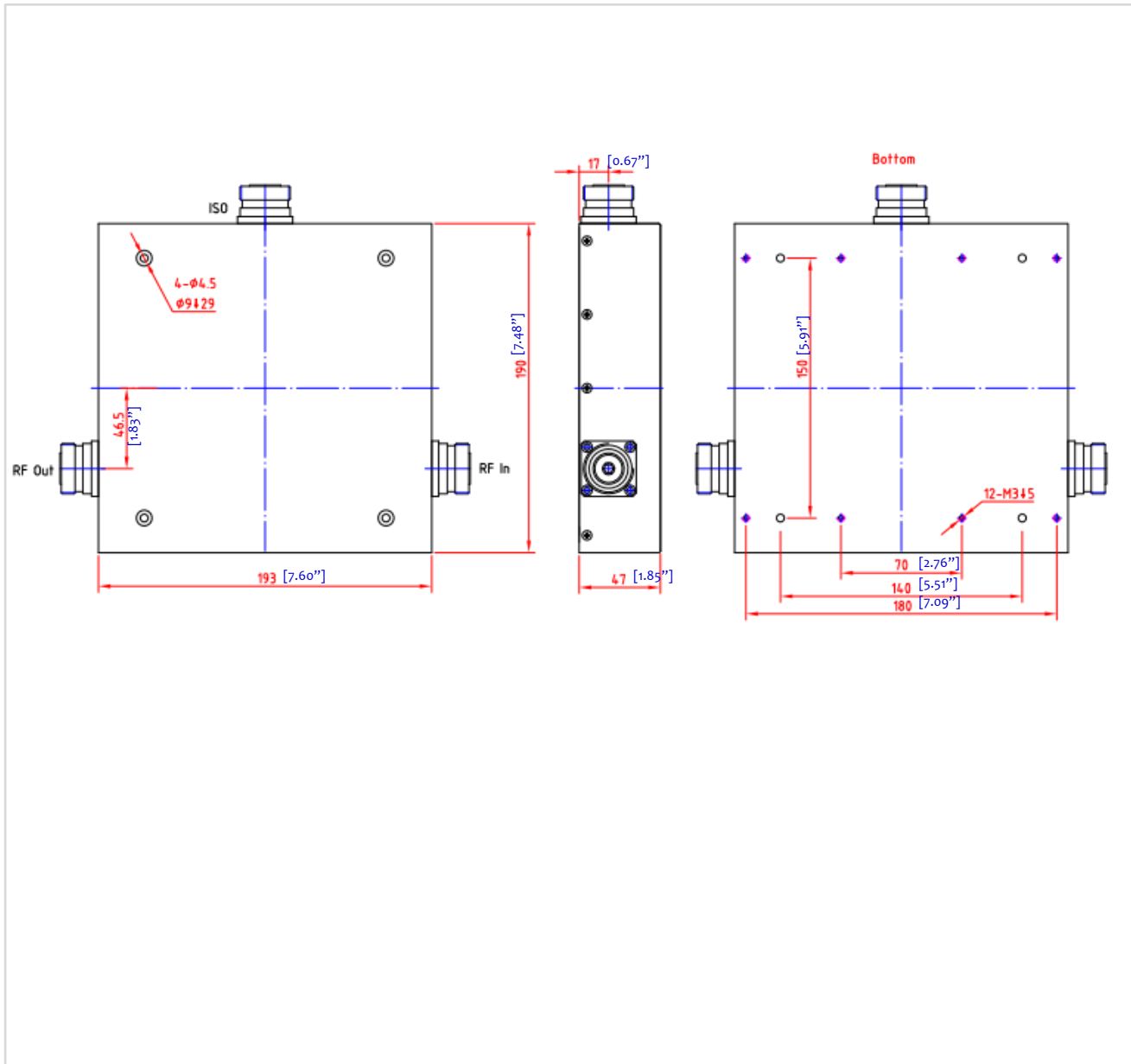
RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFC2101-1000W60

Outline Drawing:

All Dimensions in mm [inches]



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