



Coaxial Circulator 400-450MHz



Features

- High power handling up to 50W
- 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	400-450			MHz
Insertion Loss		0.30	0.35	dB
Isolation (Note 1)	21	22		dB
VSWR		1.15	1.20	:1
Forward Power (CW)			50	W
Rotation	Clockwise (Standard) Counter Clockwise (Upon request)			
Input / Output Connectors	SMA-Female			
Finish	Nickel Plated			
Case Material	Aluminum Alloy			
Weight		4.94		ounces
Impedance		50		Ω
* A 50MHz bandwidth must be chosen between 400 and 700MHz. (Example shown is tuned to 400-450MHz)				

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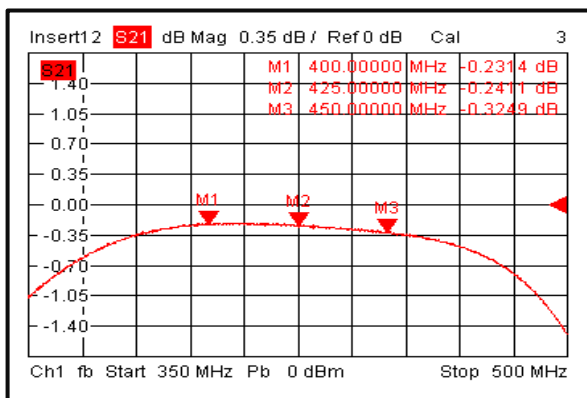
Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-45°C~+85°C
Storage Temperature		-50°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	MIL-STD-883 (For Hermetically Sealed Units)

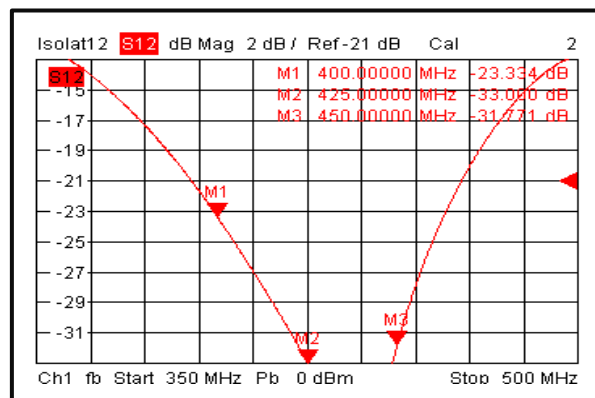
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Typical Performance Plots

Insertion Loss



Isolation



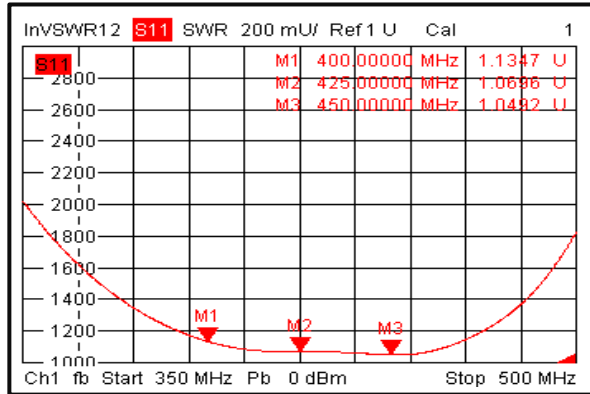


RF-LAMBDA

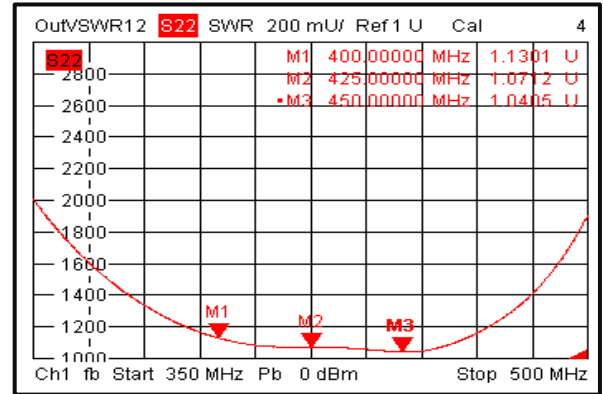
LEADER OF RF BROADBAND SOLUTIONS

RFLC-101-1H-400-450S

VSWR 1

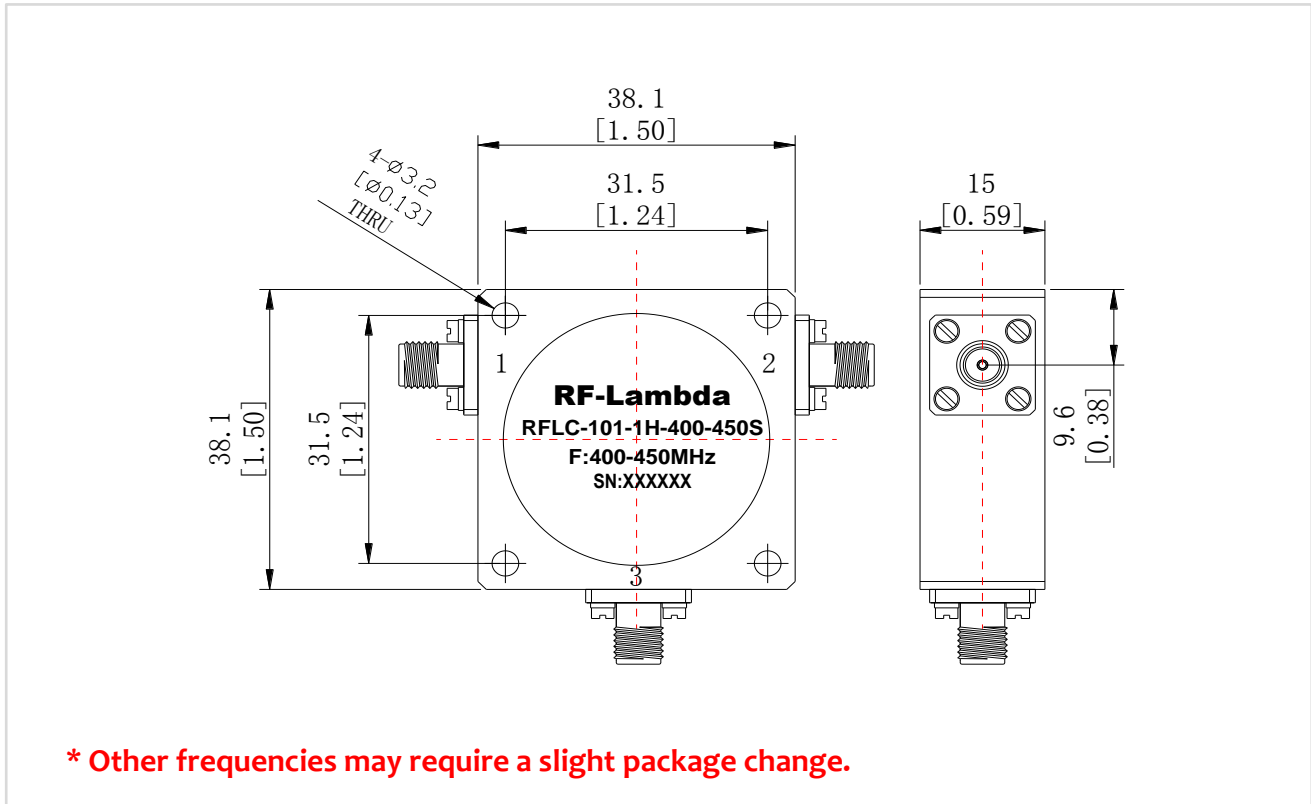


VSWSR2



Outline Drawing:

All Dimensions in mm [inches]



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