



Ultra Wide Band Coaxial Circulator 0.9 - 1.5GHz



Features

- High power handling up to 50W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature
- Aerospace and military applications
- LMDS multi-carrier operation
- High peak to average handling capability
- All specifications can be modified upon request

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

Parameter	Min	Typ	Max	Units
Frequency Range	0.9 - 1.5			GHz
Insertion Loss		0.50	0.60	dB
Isolation (Note 1)	17	18		dB
VSWR		1.30	1.35	:1
Forward Power (CW)			50	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	N - Female			
Finishing	Nickel Plated			
Case Material	Aluminum alloy			
Weight	14.11			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 >19dB)
 Bandwidth (20~30) % x Center Frequency (Isolation >18dB)
 Bandwidth (40~60) % x Center Frequency (Isolation >17dB)
 Ask manufacturer for detail

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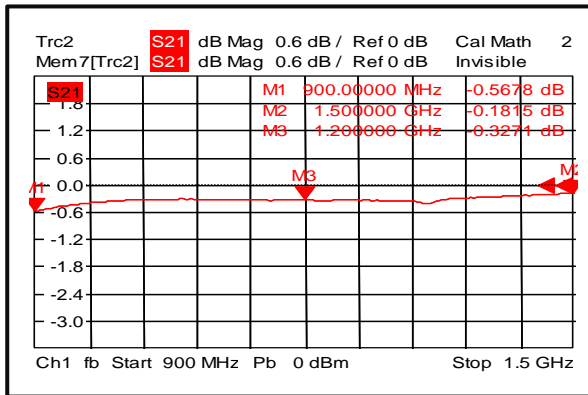


Environmental Specifications

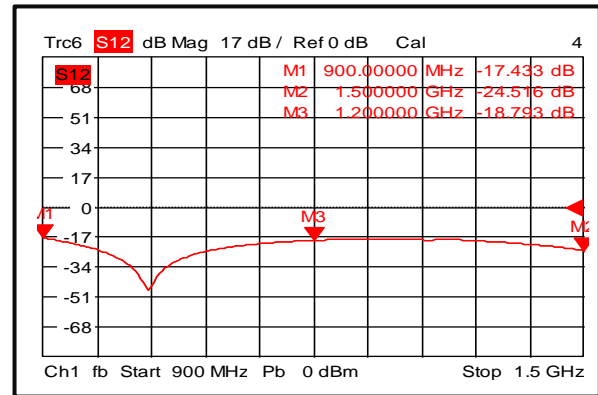
Operational Temperature (°C)	-10 ~ +50
Storage Temperature (°C)	-40 ~ +85
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 °C
Shock	20G for 11msec half sine wave, 3 axis both directions

Typical Performance Plots

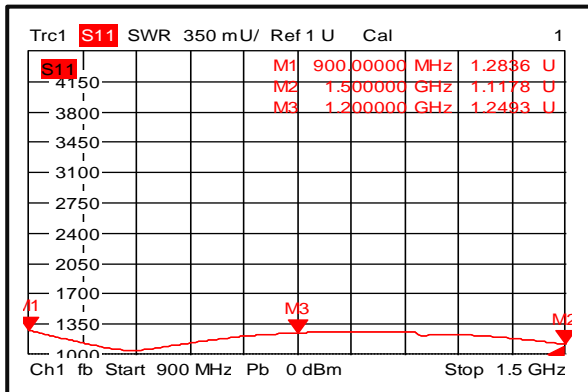
Insertion Loss



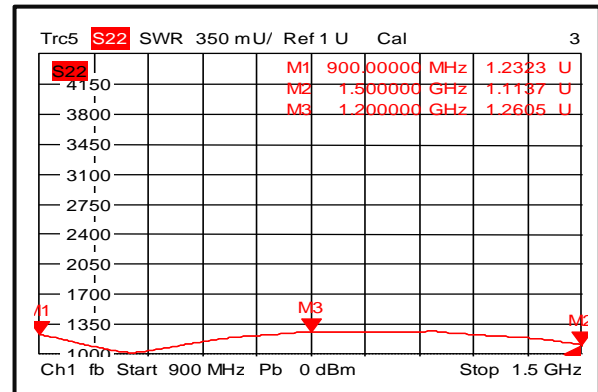
Isolation



VSWR 1



VSWR2



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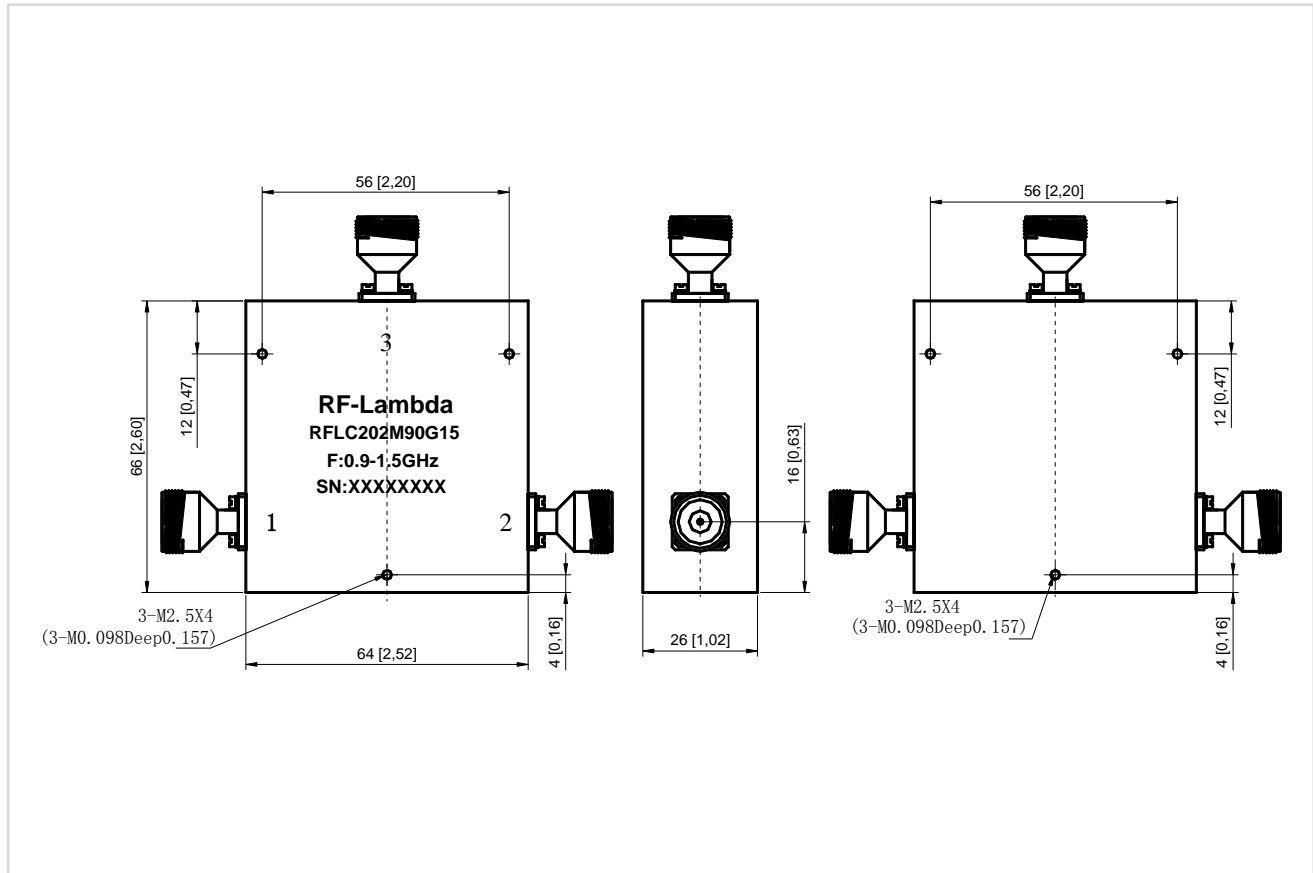
RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFLC202M90G15

Outline Drawing:

All Dimensions in mm [inches]



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