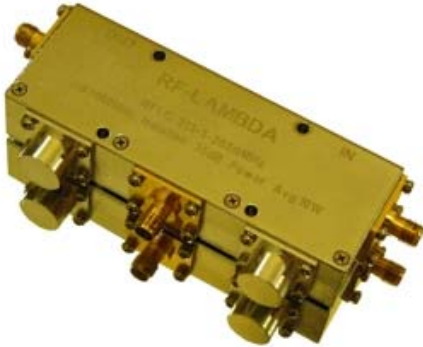




Triple Junctions Circulator



- High power handle capability up to 10W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Low temperature coefficient ferrite material offer stable performance over temperature
- Aerospace and military application
- LMDS multi-carrier operation
- High peak to average handle capability
- All specifications can be modified upon request

Triple Junctions Circulator

Parameter		Min	Type	Max	Units
Frequency Range		4~8			GHz
Insertion Loss	1→2			1.0	dB
	2→3			1.0	
Isolation	2→1	36			dB
	3→2	36			
	3→1	36			
	1→3	18			
VSWR				1.30	:1
Forward Power (CW)			10		W
Reverse Power (CW)			1		W
Rotation		P1→ P2 →P3			
Input /Output Connector		SMA (N-option)			
Finishing		Nickel Plated			
Case Material		Aluminum alloy			
Operational Temp.		-20		70	°C
Storage Temp.		-40		85	°C
Altitude					ft.
Weight					ounces
Impedance		50			Ω
Vibration		10g 15 degree 2KHz			RMS
Humidity		100% RH at 35c, 95%RH at 40°C			
Shock		20G for 11msc.			

Note 1: Unit has narrow frequency bandwidth can achieve higher isolation & low insertion loss

Bandwidth (5 ~10) % x Center Frequency (Isolation >XdB)

Bandwidth (20~30) % x Center Frequency (Isolation >XdB)

Bandwidth (40~60) % x Center Frequency (Isolation >XdB)

Ask manufacture for detail

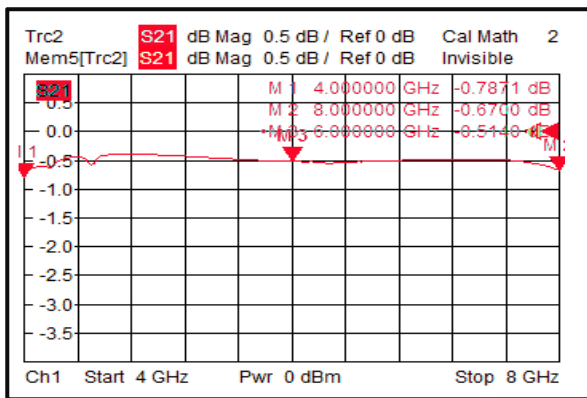


Environment specifications

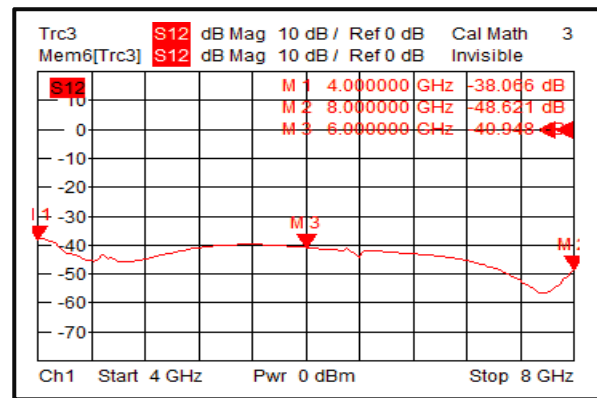
Operational Temperature (C°)	-20 ~ +70
Storage Temperature (C°)	-40 ~ +100
Altitude	45000 ft
Vibration	10g rms (15 degree 2KHz)
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc half sin wave,3 axis both directions

Typical performance plots

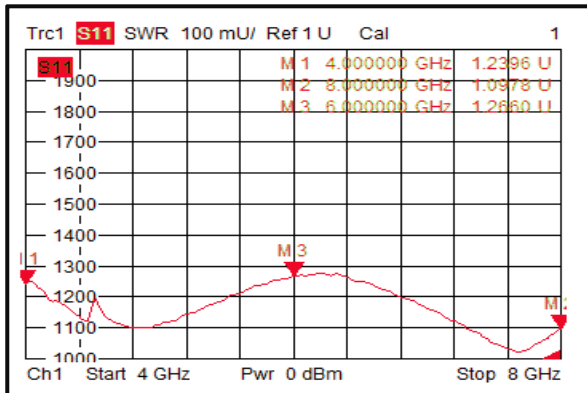
Port 1 → Port 2 Insertion Loss



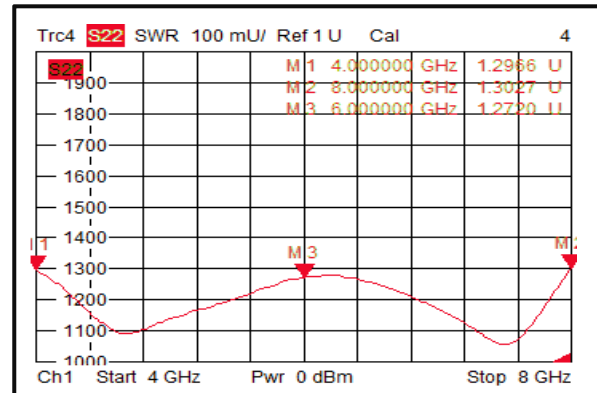
Port 1 → Port 2 Isolation (S12)



Port 1 → Port 2 VSWR 1 (S11)

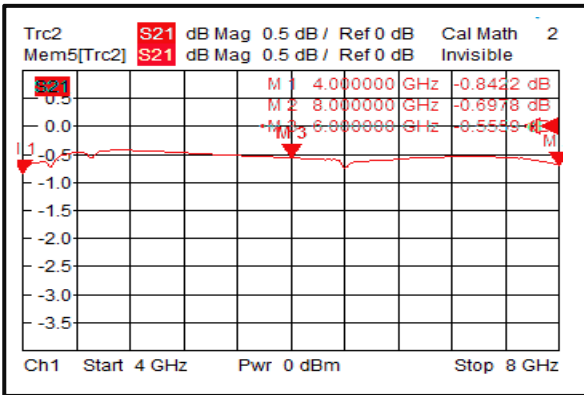


Port 1 → Port 2 VSWR2 (S22)

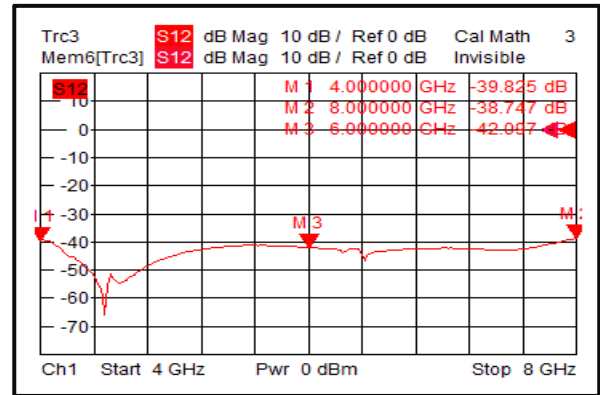




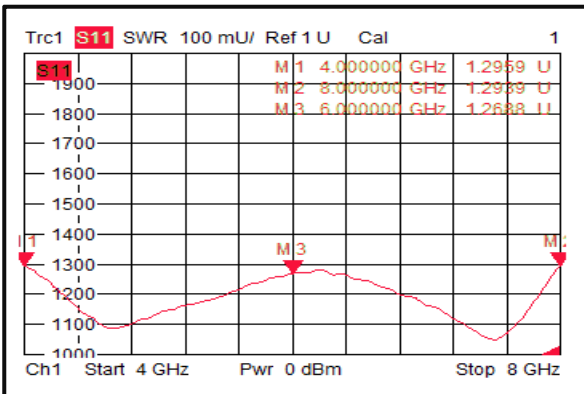
Port 2 → Port 3 Insertion Loss



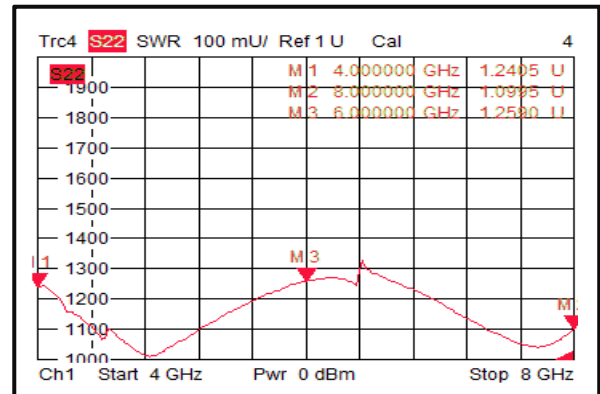
Port 2 → Port 3 Isolation



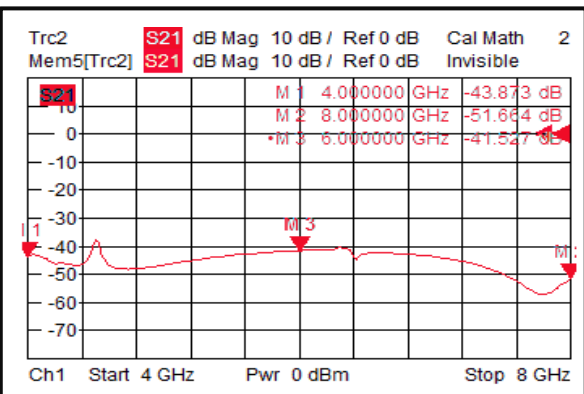
Port 2 → Port 3 VSWR1



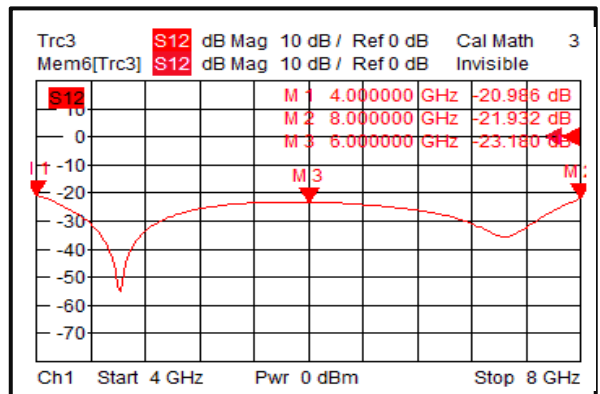
Port 2 → Port 3 VSWR2



Port 3 → Port 1 Insertion Loss

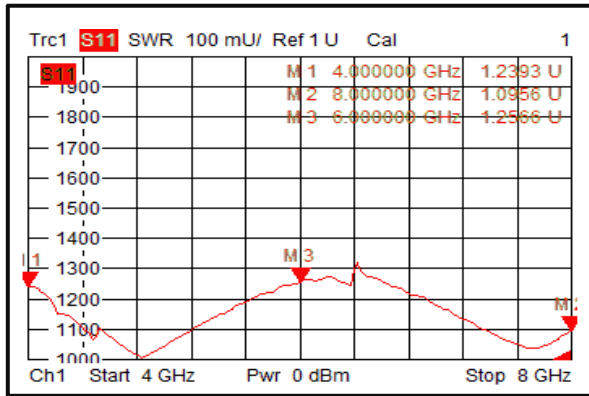


Port 3 → Port 1 Isolation

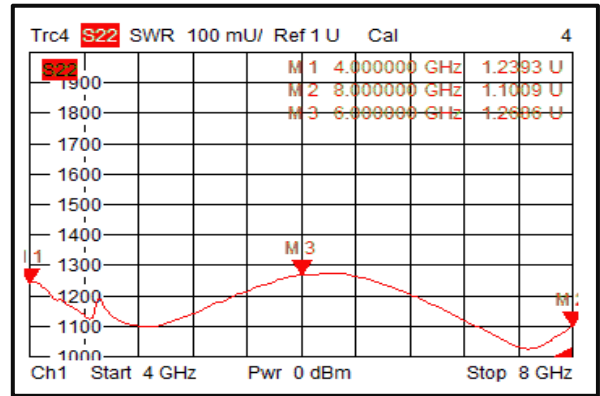




Port 3 → Port 1 VSWR 1

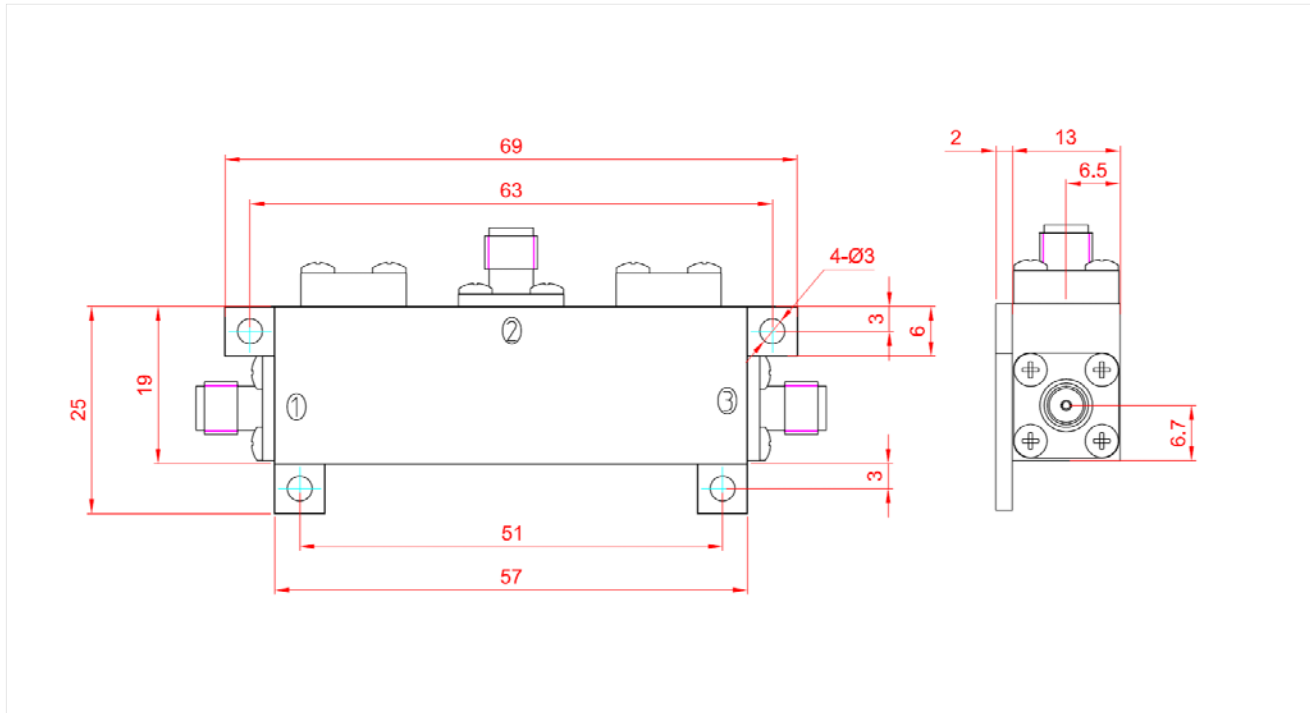


Port 3 → Port 1 VSWR2



Outline Drawing:

All Dimensions in mm (inches)



Important Notice

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information. RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.