



WR159 Ultra Wide Band Waveguide Isolator 4.9-7.05GHz



- High Power to 400W
- Wide band operation
- 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

Parameter	Min	Type	Max	Units
Frequency Range	4.9-7.05			GHz
Insertion Loss		0.40	0.50	dB
Isolation	21	22		dB
VSWR		1.15	1.20	:1
Forward Power (CW)			400	W
Reverse Power (CW)			40	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input /Output Connector	UAR58			
Finishing	conductive oxide			
Case Material	Aluminum alloy			
Operational Temp.	-20		60	°C
Storage Temp.	-40		85	°C
Altitude				ft.
Weight				g
Impedance				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 >24dB)

Bandwidth (20~30) % x Center Frequency (Isolation >23dB)

Bandwidth (40~60) % x Center Frequency (Isolation >22dB)

Ask manufacture for detail

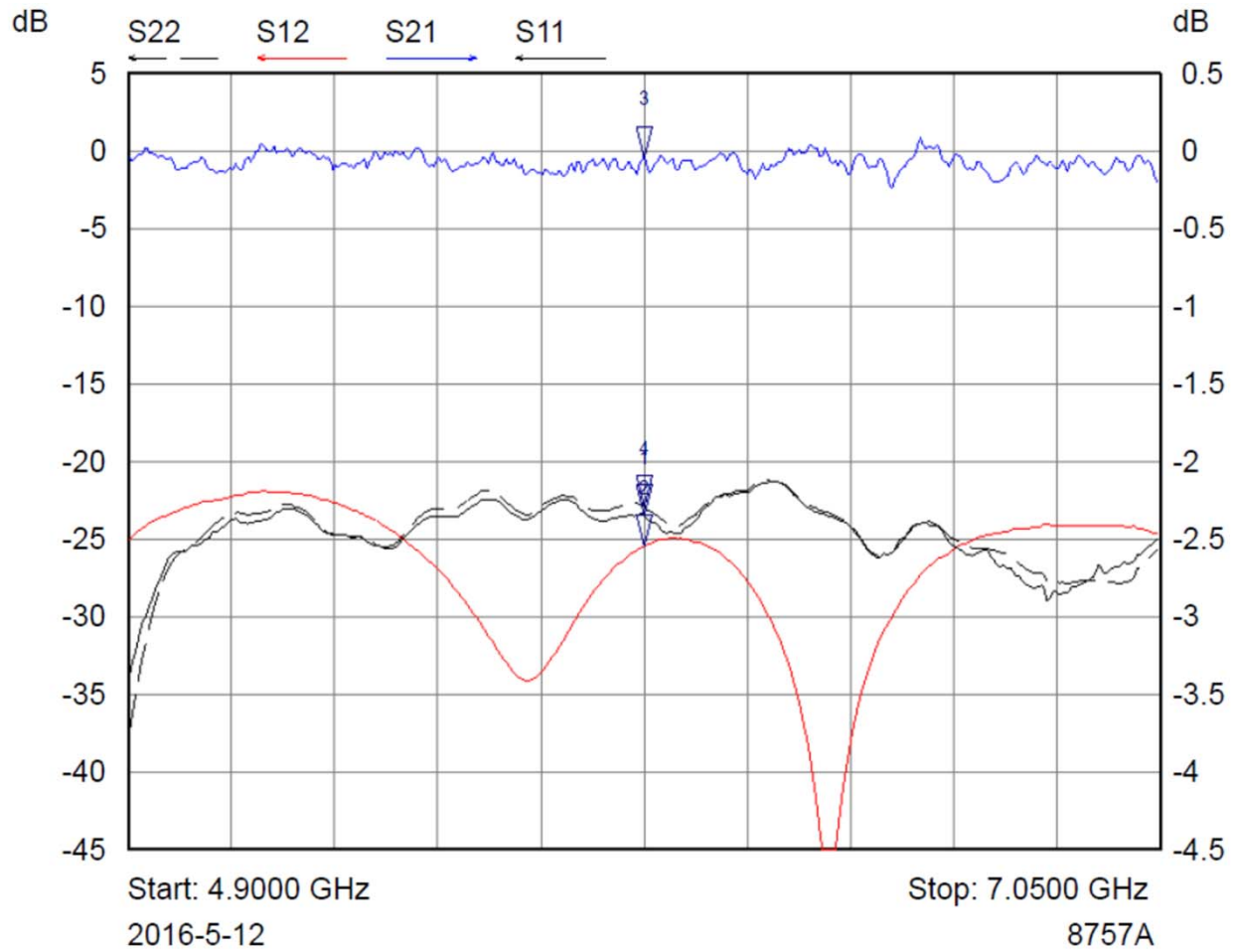
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RFWI159C



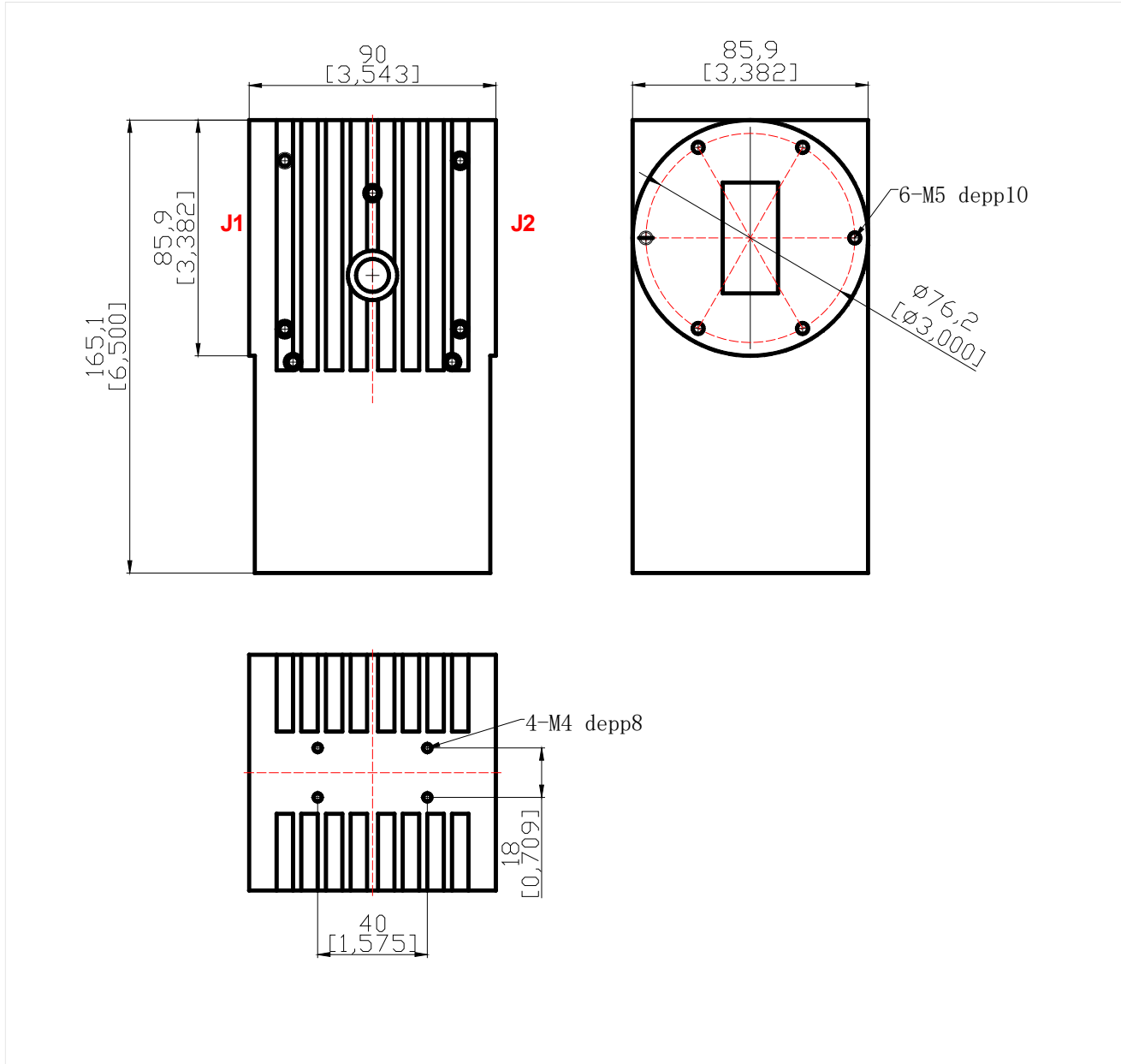
Mkr	Trace	X-Axis	Value	Notes
1 ▽	S11	5.9750 GHz	-23.51 dB	
2 ▽	S12	5.9750 GHz	-25.38 dB	
3 ▽	S21	5.9750 GHz	-0.05 dB	
4 ▽	S22	5.9750 GHz	-22.93 dB	

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Outline Drawing:

All Dimensions in mm (inches)



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