Ultra Wide Band Isolator
190-230MHz

Features

- High power handling up to 50W
- Wide band operation
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature
- All specifications can be modified upon request

RoHS Compliant

Typical Applications

- Aerospace and military applications
- LMDS multi-carrier operation

Electrical Specifications, T_A=25 ℃

Parameter	Min	Typ	Max	Units
Frequency Range	190~230			MHz
Insertion Loss			0.5	dB
Isolation	20			dB
VSWR			1.25	:1
Forward Power (CW)			50	W
Reverse Power (CW)			5	W
Rotation	Clockwise (Standard) Counter Clockwise (Upon Request)			
Coaxial Connectors	SMA-Female / N-Female			
External Body Finish	Nickle Plated			
Case Material	Aluminum alloy			
Weight	-----			ounces
Impedance	-----			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 >22dB)
Bandwidth (40~60) % x Center Frequency (Isolation >21dB)
Ask manufacturer for details

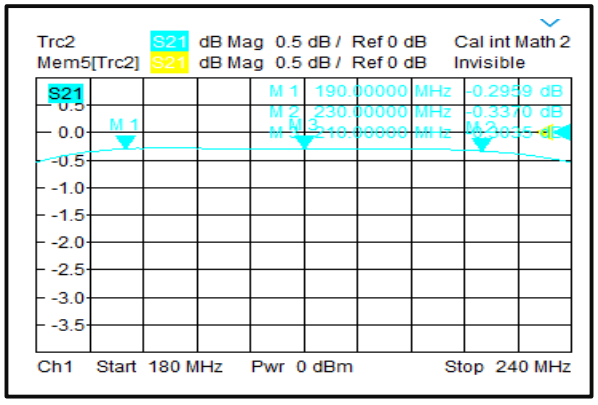
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Environmental Specifications and Test Standards

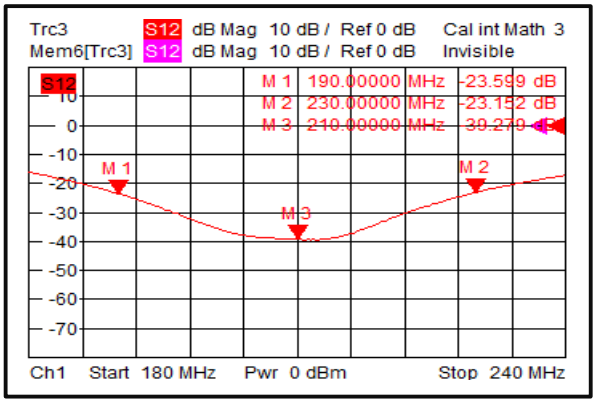
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20℃~+70℃
Storage Temperature		-40℃~+85℃
Thermal Shock		1 Hour@ -45℃ → 1 Hour @ +85℃ (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85℃ for 72 Hours
Shock		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)

Typical Performance Plots

Insertion Loss

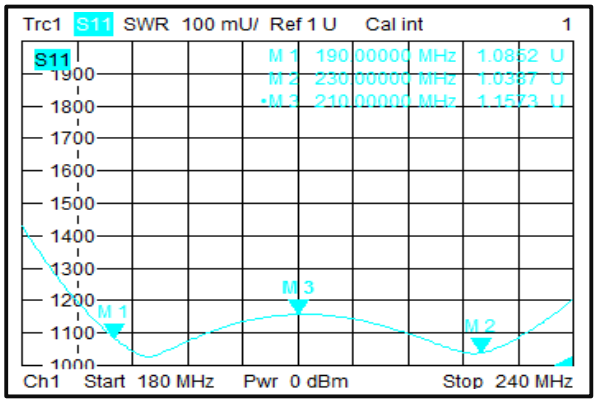


Isolation

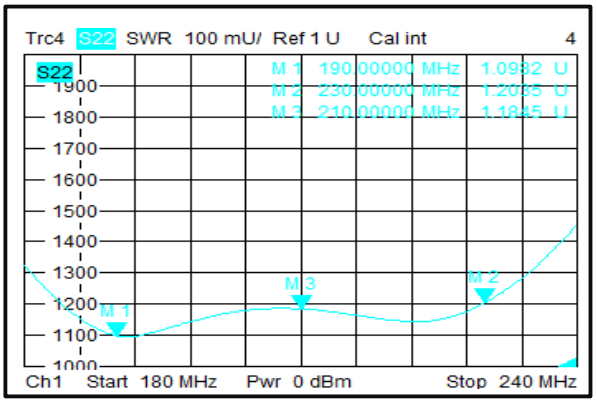


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VSWR 1

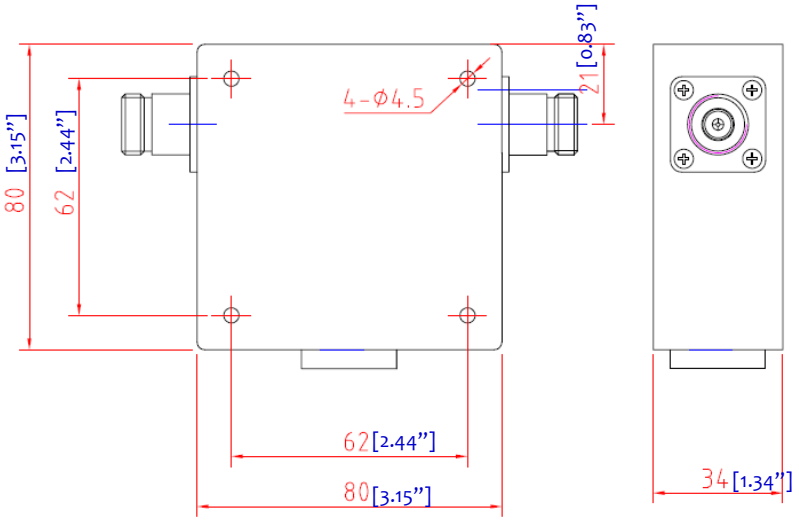


VSWR2



Outline Drawing:

All Dimensions in mm [inches]



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