Ultra Wide Band Isolator
8-10GHz

RoHS Compliant

Features

- High isolation to 40dB
- Wide band operation
- Low Insertion Loss
- Stable performance over temperature

Typical Applications

- Aerospace and Military Applications
- Wireless Infrastructure
- Test and Measurement

Electrical Specifications, T_A=25 ℃

Parameter	Min	Typ	Max	Units
Frequency Range		8~10		GHz
Bandwidth		2000		MHz
Insertion Loss		0.90	1	dB
Isolation	40	41		dB
VSWR		1.20	1.25	:1
Forward Power (CW)			10	W
Reverse Power (CW)			2	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Connectors	SMA-Female			
Case Material	Aluminum alloy			
Weight	0.71			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 >43dB)
Bandwidth (20~30) % x Center Frequency (Isolation >42dB)
Bandwidth (40~60) % x Center Frequency (Isolation >41dB)
Ask manufacturer for details

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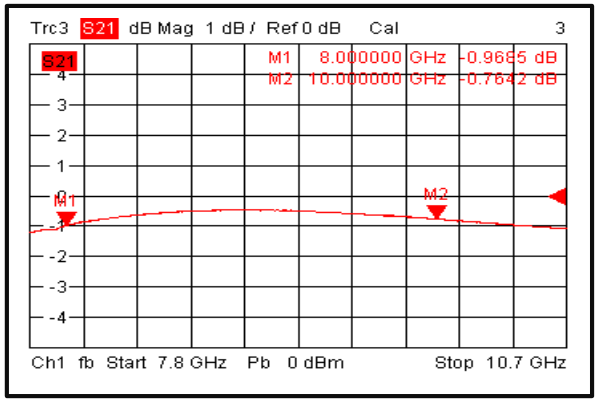
Environmental Specifications and Test Standards

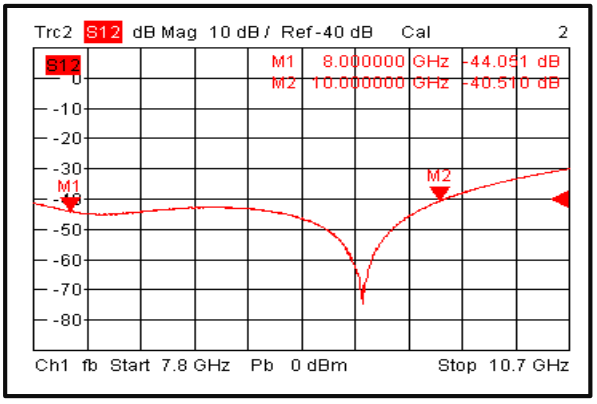
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-55℃~+85℃
Storage Temperature		-55℃~+125℃
Thermal Shock		1 Hour@ -45℃ → 1 Hour @ +85℃ (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85℃ for 72 Hours
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

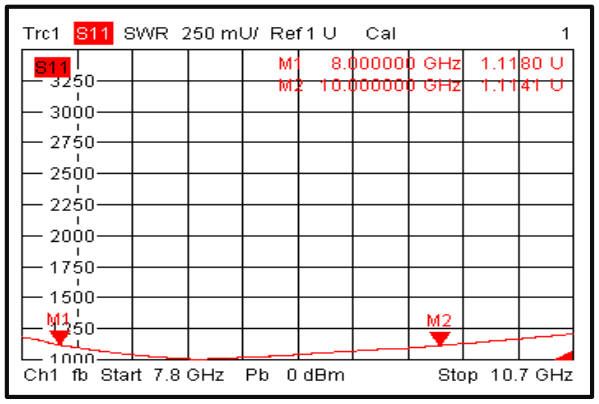
Insertion Loss



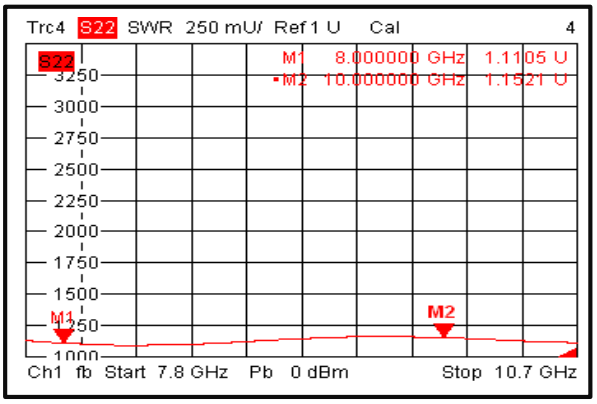
Isolation



VSWR 1



VSWR2



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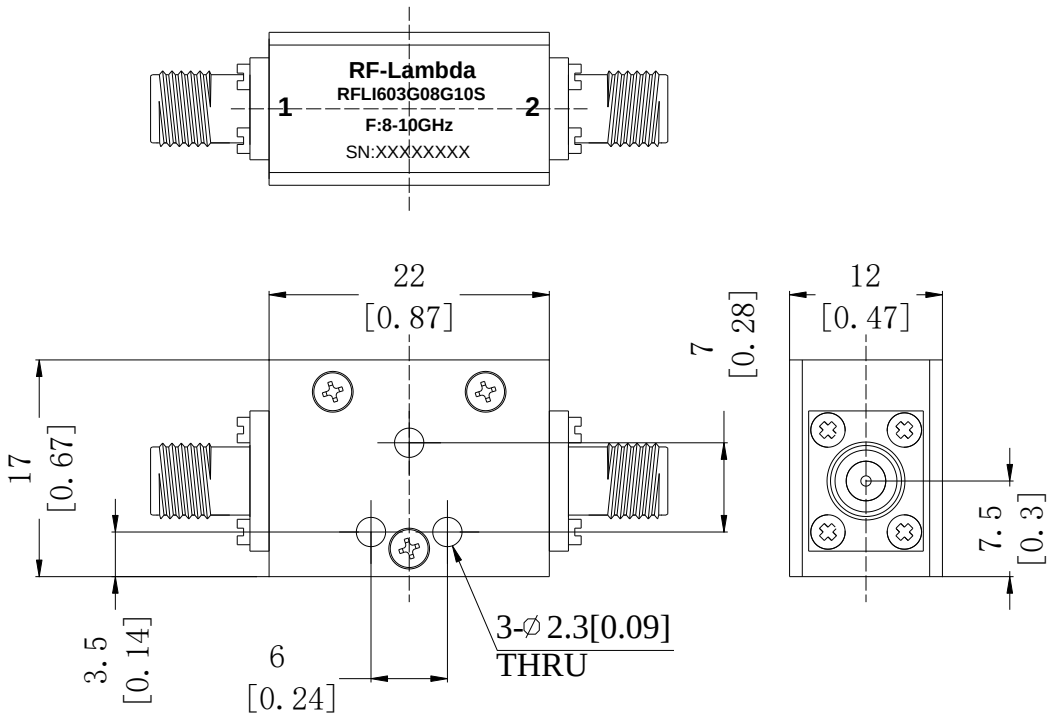
Outline Drawing:

All Dimensions in mm [inches]



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