

75W WR90 Waveguide Isolator 8.2 - 12.4GHz





- High power handling capability up to 75W
- Wide band operation
- · High isolation within operational band
- Low Insertion loss
- · Stable performance over temperature



Typical Applications

- Aerospace and military applications
- Wireless Infrastructure
- Test and Measurement

Electrical Specifications, $T_A=25$ °C

Parameter	Min	Тур.	Max	Units
Frequency Range	8.2-12.4 GHz			
Insertion Loss			0.50	dB
Reverse Isolation (Note 1)	19			dB
VSWR			1.25	:1
Forward Power (CW)			75	W
Reverse Power (CW)			7.5	W
Rotation	Clockwise (Standard, the port 3 is a load) Counter Clockwise (upon request)			
Finish	Oxidation			
Flange Type	UG135/U			
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 >21dB)

Bandwidth (40~60)% x Center Frequency (Isolation >20dB)

Ask manufacturer for details

RF-LAMBDA USA

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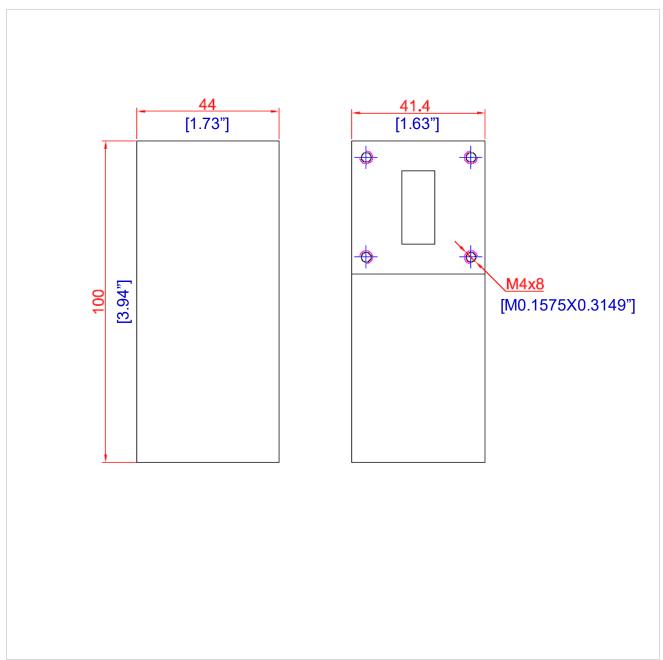
Environmental Specifications and Test Standards

Parameter	Standard	Description	
Operational Temperature	MIL-STD-39016	-20°C~+60°C	
Storage Temperature		-45°C~+85°C	
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)	
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS	
Electrical & Temperature Burn In		Temperature +85°C 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)	



Outline Drawing:

All Dimensions in mm [inches]



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