



WR137 Waveguide High Power Isolator 5.85 – 6.85GHz



Note: The photo is for illustration only.
Please refer to the outline drawing.

Features

- High power handling up to 400W CW.
- 35dB Antenna Coupler
- High isolation within operational band
- Low Insertion Loss

Typical Applications

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

Electrical Specifications, $T_A=25\text{ }^{\circ}\text{C}$

Parameter	Min.	Typ.	Max.	Units
Frequency Range	5.85~6.85			GHz
Insertion Loss			0.30	dB
Isolation	21			dB
VSWR			1.20	:1
Forward Power (CW)			400	W
Reverse Power (CW)	100W (400W less than 30 seconds)			
Reverse Power Coupling	35dBc			
Rotation	Clockwise (Standard) Counter Clockwise (Upon Request)			
Finish	Conductive Oxide (No Paint)			
Flange Type	UG1357/U CPR137G Grooved			
Case Material	Aluminum Alloy			



Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20°C~+50°C
Storage Temperature		-45°C~+125°C
Thermal Shock		1 Hour@ -20°C → 1 Hour @ +50°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)



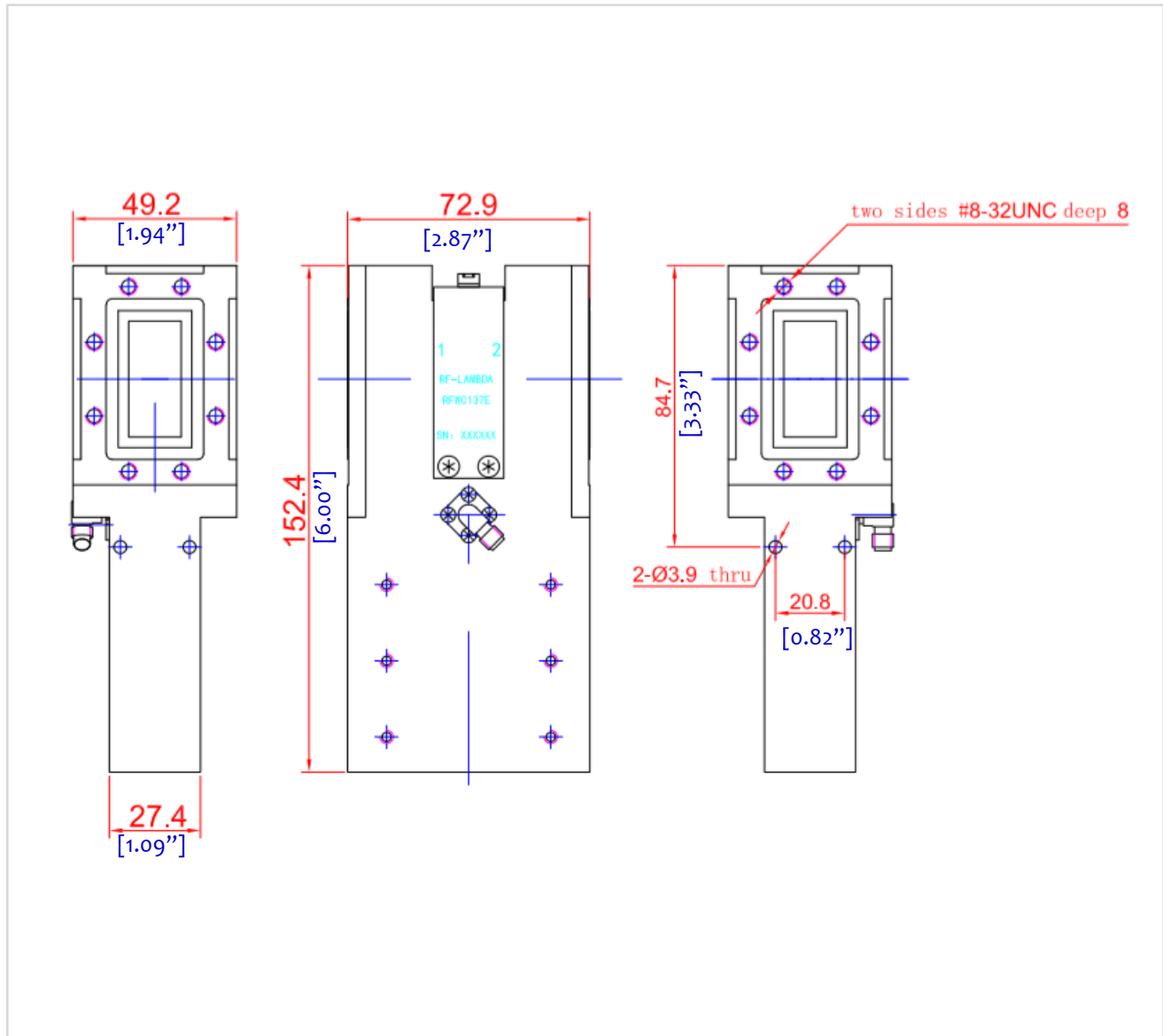
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RFWC137E

Outline Drawing:

All Dimensions in mm [inches]



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