



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFWI28D

High Power WR28 Waveguide Isolator 26.5 - 40GHz

Features

- High power handling capability up to 200W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Stable performance over temperature



Typical Applications

- Aerospace and military applications
- LMDS multi-carrier operation

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

Parameter		Min	Typ	Max	Units
Frequency Range		26.5-40			GHz
Insertion Loss			0.6	0.7	dB
Isolation		16	18		dB
Return Loss		16	18		dB
Forward Power (CW)				200	W
Reverse Power (CW)				200	W
Rotation	Circulator	1->2->3->4->1			
	Isolator@1->2	Port3 – High Power Load Port4 – Mounted 2W Load			
Finish		Conductive Oxide			
Flange Type		UG599/U			
Case Material		Aluminum Alloy			
Impedance		50			Ω

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Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20°C~+60°C
Storage Temperature		-55°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)

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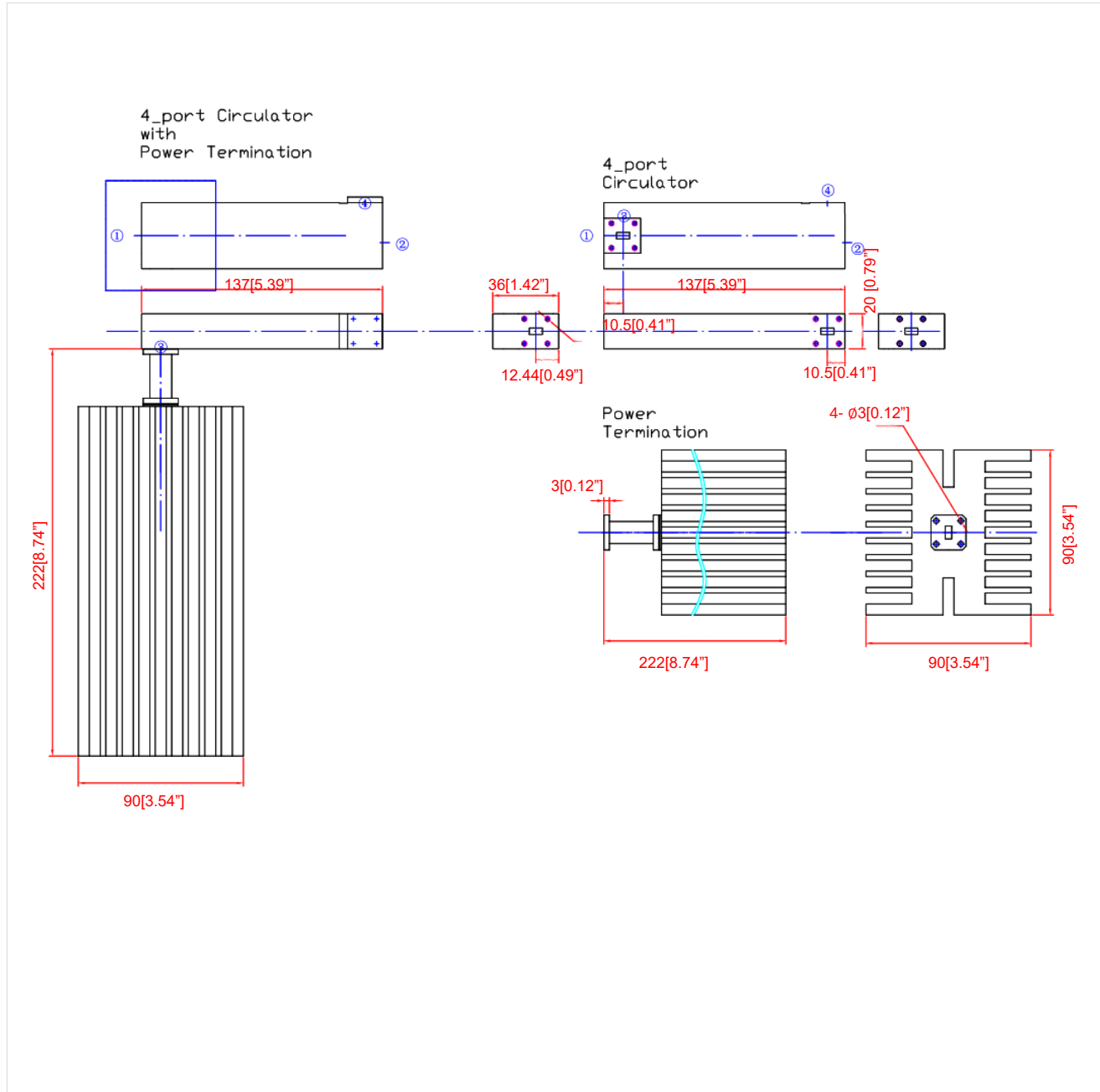
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Outline Drawing:

All Dimensions in mm [inches]



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