



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RWGCP340SB

Waveguide WR340 Single Directional Coupler 2.47 – 2.73GHz

Features

- Wide band operation 2.47-2.73GHz
- High isolation within operational band
- Low Insertion loss
- Stable performance over temperature



Typical Applications

- Aerospace and military applications
- LMDS multi-carrier operation

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

Parameter	Min.	Typ.	Max.	Units
Frequency Range	2.47~2.73			GHz
Coupling		30		dB
Directivity	18			dB
Insertion Loss			0.15	dB
VSWR			1.05	:1
Average Power			1000	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Waveguide Type	Rectangular WR340			
Flange type	CPRG, CPRF, COVER, CHOKE available			
Flange Holes	Through			
Basis-material	Alloyed Cuprum			
Internal Body Finish	Plated chromate or conversion			
External Body Finish	Body Painted with Gray / Black epoxy enamel			

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Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40°C~+85°C
Storage Temperature		-60°C~+125°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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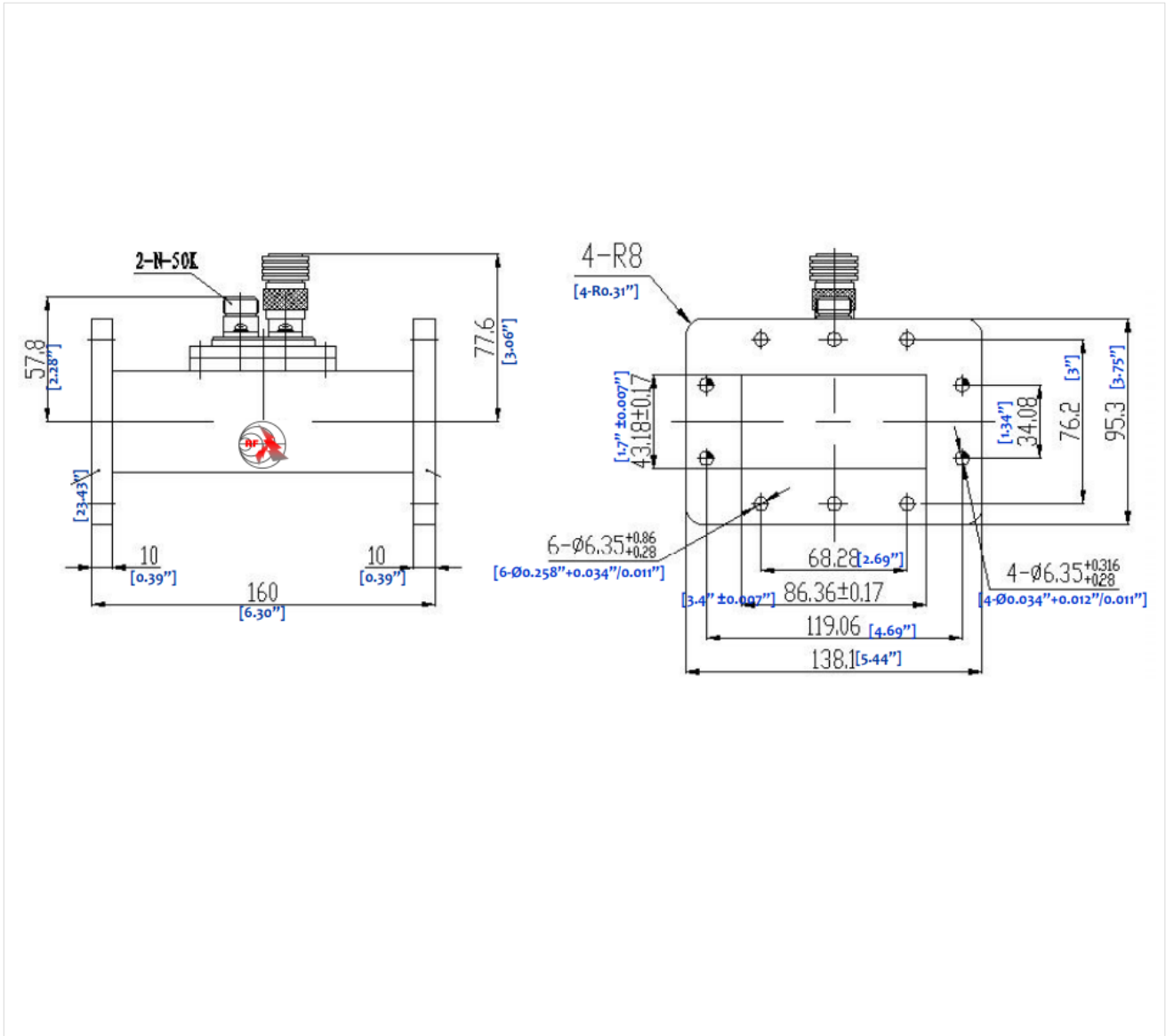
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Outline Drawing:

All Dimensions in mm [inches]



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