



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RWGCP112SC

Cross-Guide Directional Coupler 6.57 – 9.99GHz

Features

- Four-port configuration cross-guide coupler.
- The coupling level can be custom made ranging from 20 dB to 60 dB. The flange type, connector type and sizes can be customized.



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

Parameters	Min.	Typ.	Max.	Units
Frequency Range	6.57		9.99	GHz
Nominal Coupling	20~60 \pm 1			dB
Directivity	15			dB
Insertion Loss			0.2	dB
VSWR Primary			1.10	: 1
VSWR Secondary			1.25	: 1
Waveguide Type	WR112			
Flange Type	UG138/U			
Input / Output Connectors	N-Female			
Material	Copper/Brass			
Inside Finish	Silver plating			
Outside Finish	Anticorrosion grey paint			

Environmental Specifications

Operational Temperature ($^\circ\text{C}$)	-45 to +85
Storage Temperature ($^\circ\text{C}$)	-55 to +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msec half sine wave, 3 axis both directions

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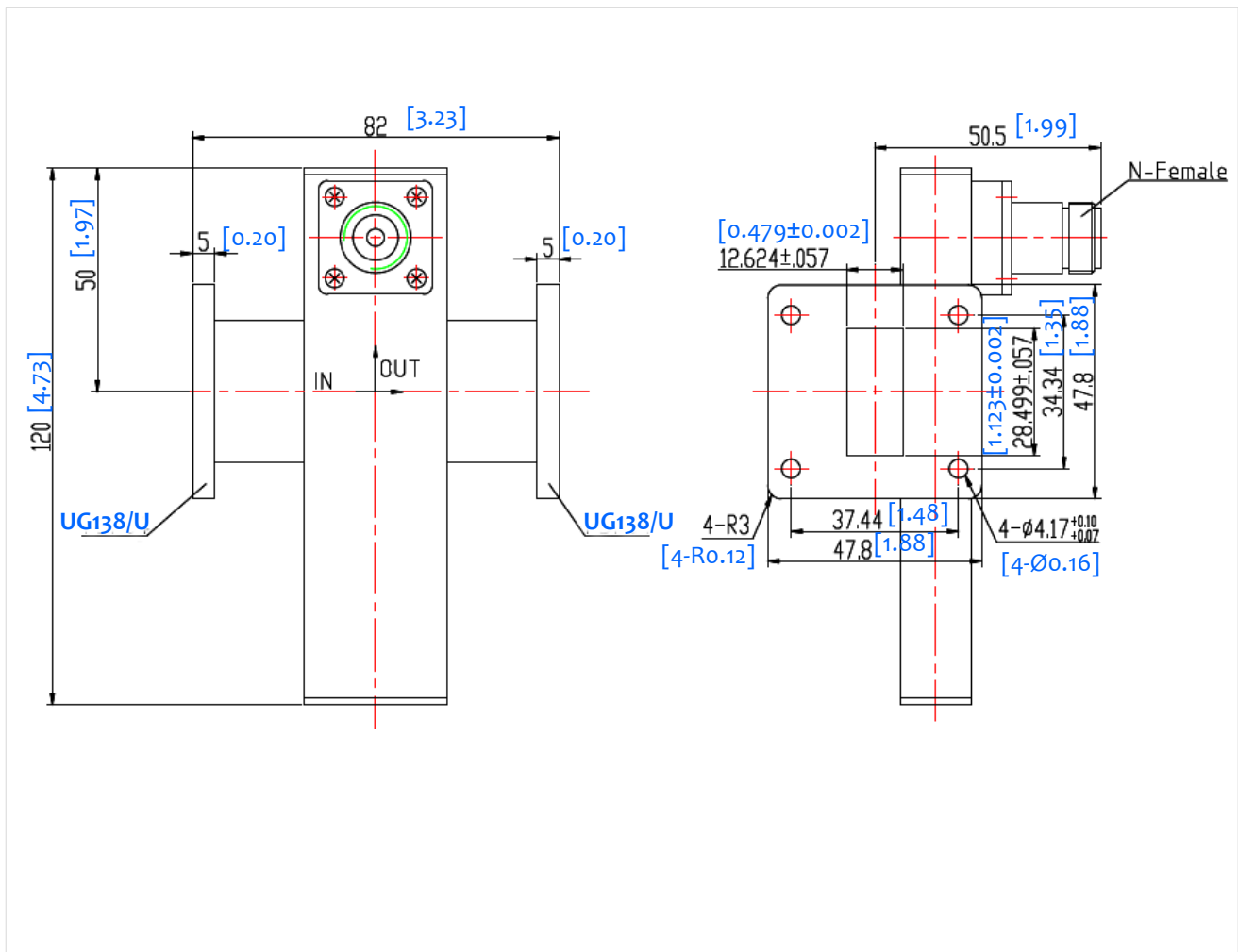
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Outline Drawing:

All Dimensions in mm [inches]



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