



Ka-Band WR28 Waveguide 4 port Circulator 32 - 38GHz



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

Features

- High power handling up to 150W
- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature

Typical Applications

- Aerospace and Military
- Wireless Infrastructure
- Test and Measurement

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

Parameter		Min.	Typ.	Max.	Units
Frequency Range		32 - 38			GHz
Insertion Loss				0.35	dB
Reverse Isolation		21			dB
VSWR				1.2	:1
Power Rating	Average			150	W
	Peak			1.5	KW
+50 °C~+85 °C forced cooling, the maximum temperature for the surface should be less than +90 °C					
Rotation		port No. and transport direction can be re-defined before PO.): Port 1->Port 2->Port3->Port4->Port1			
Waveguide Type		WR28			
Flange Type		UG599/U, the mounting hole is metric threaded.			
Case Material		Aluminum Alloy			
Finish		Conductive oxide			
<p>Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss</p> <p>Bandwidth (5 ~ 10) % x Center Frequency (Isolation >24dB)</p> <p>Bandwidth (20 ~ 30) % x Center Frequency (Isolation >23dB)</p> <p>Bandwidth (40 ~ 60) % x Center Frequency (Isolation >21dB)</p> <p>Ask manufacturer for details</p>					

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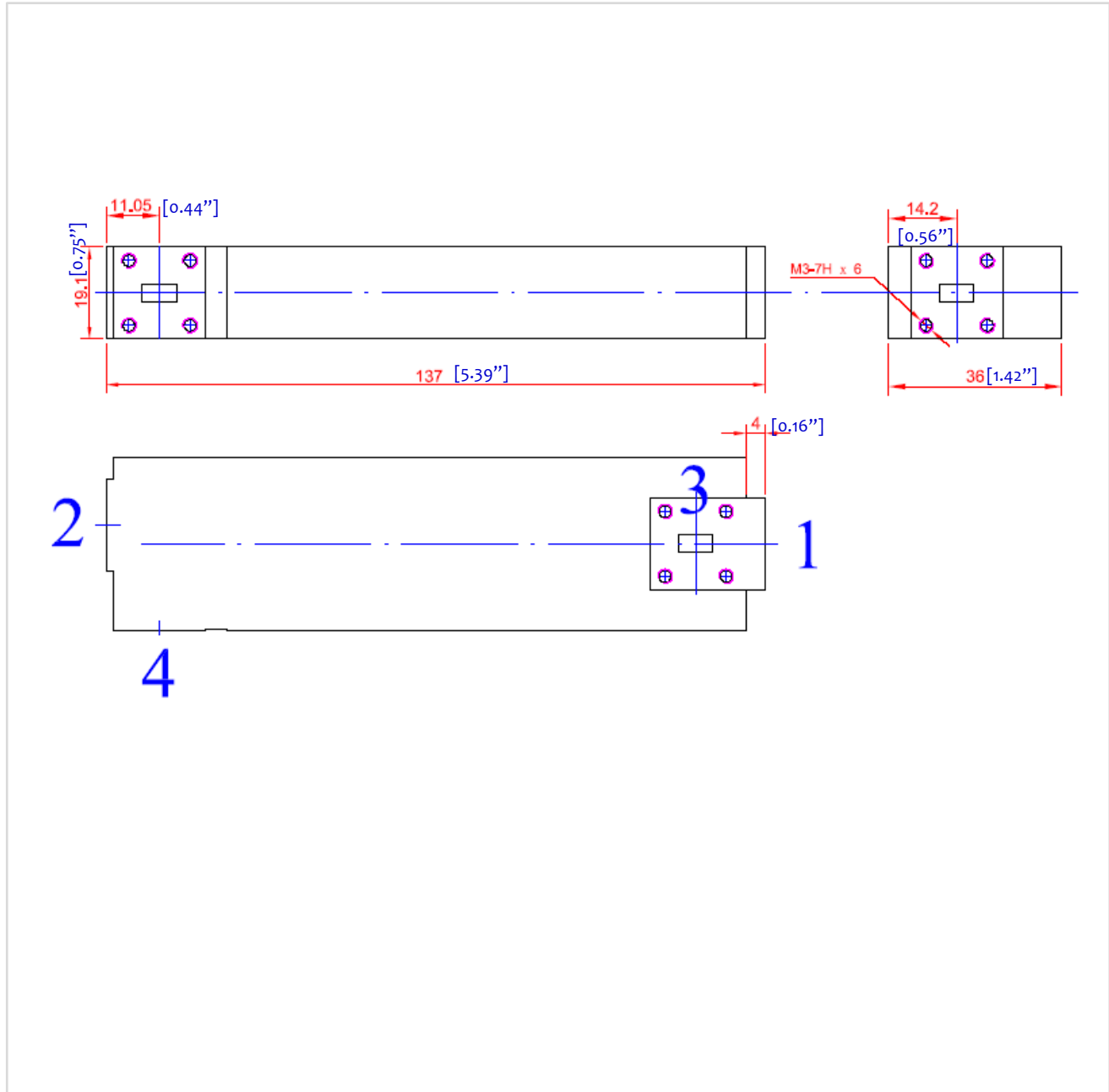
Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20°C~+50°C
Storage Temperature		-40°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



Outline Drawing:

All Dimensions in mm [inches]



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