



### WR284 Waveguide Circulator 2.8 - 3.2GHz



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



#### Features

- High isolation within operational band
- Low Insertion Loss
- Stable performance over temperature
- All specifications can be modified upon request

#### 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	2.8-3.2			GHz
Insertion Loss			0.30	dB
Reverse Isolation (Note 1)	20			dB
VSWR			1.20	:1
Power Handling			3	KW (CW)
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Flange Type	UG1725/U			
Finish	Conductive Oxide			
Case Material	Aluminum Alloy			
Weight	-----			ounces
Impedance	-----			$\Omega$

Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss  
 Bandwidth (5 ~10) % x Center Frequency (Isolation >22dB)  
 Bandwidth (20~30) % x Center Frequency (Isolation >21dB)  
 Bandwidth (40~60) % x Center Frequency (Isolation >20dB)  
 Ask manufacturer for details

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**Environmental Specifications and Test Standards**

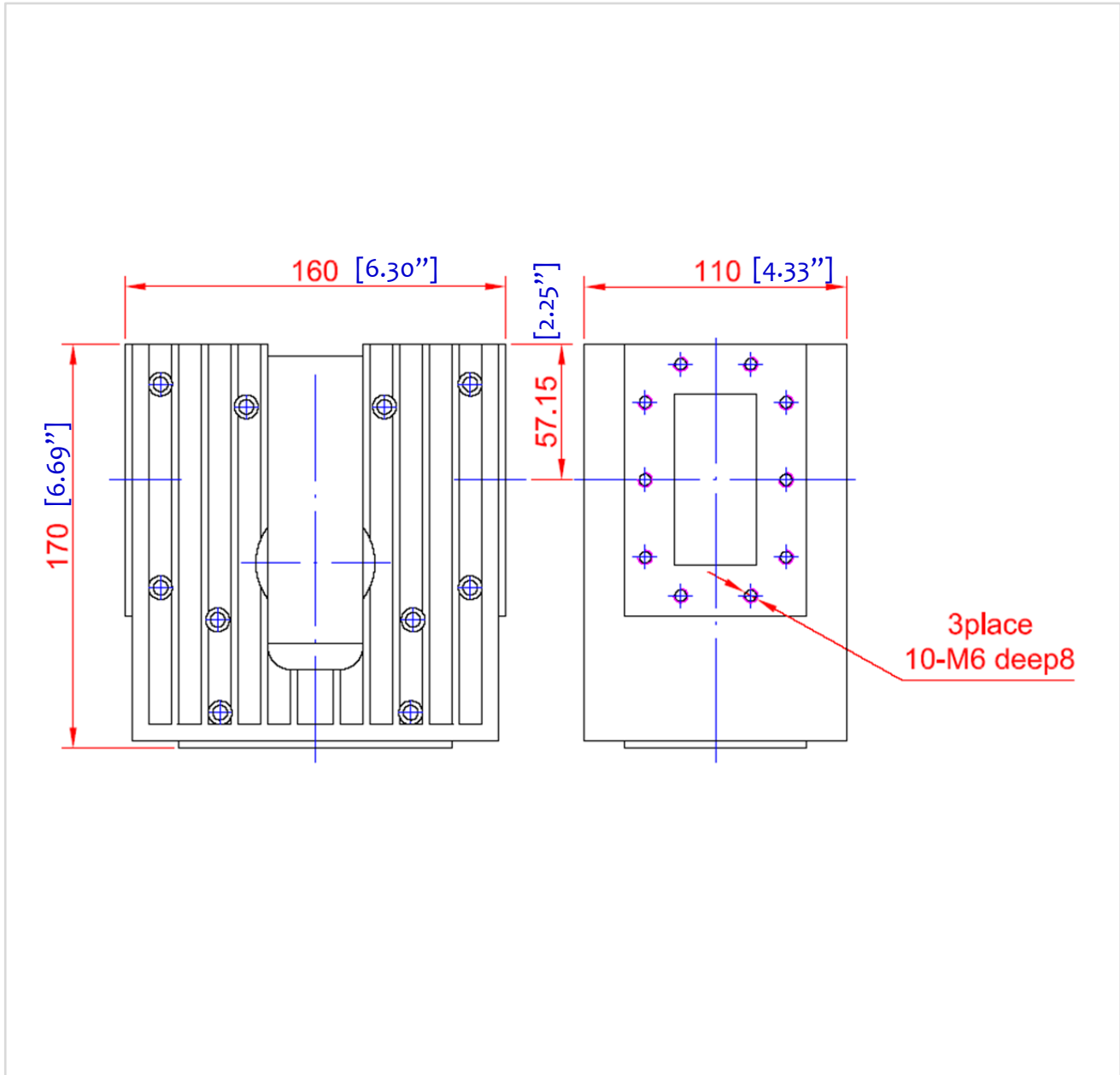
Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-10°C~+55°C
Storage Temperature		-45°C~+85°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 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

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### Outline Drawing:

All Dimensions in mm [inches]



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