



### WR229 Waveguide Circulator 3.3 - 4.9 GHz 400 W

#### Features

- High power handling capability up to 400W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Stable performance over temperature
- High peak to average handling capability
- 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	3.3-4.9			GHz
Insertion Loss		0.40	0.50	dB
Isolation (Note 1)	21	22		dB
VSWR		1.15	1.20	:1
Forward Power (CW)			400	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Interface	COVER flat 4 holes			
Finish	Conductive oxidation			
Flange Type	UDR40 ( UG 1727/U )			
Case Material	Aluminum alloy			
Weight				ounces
Impedance	50			$\Omega$

Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss  
 Bandwidth (5 ~10) % x Center Frequency (Isolation >25dB)  
 Bandwidth (20~30) % x Center Frequency (Isolation >23dB)  
 Bandwidth (40~60) % x Center Frequency (Isolation >21dB)  
 Ask manufacturer for details

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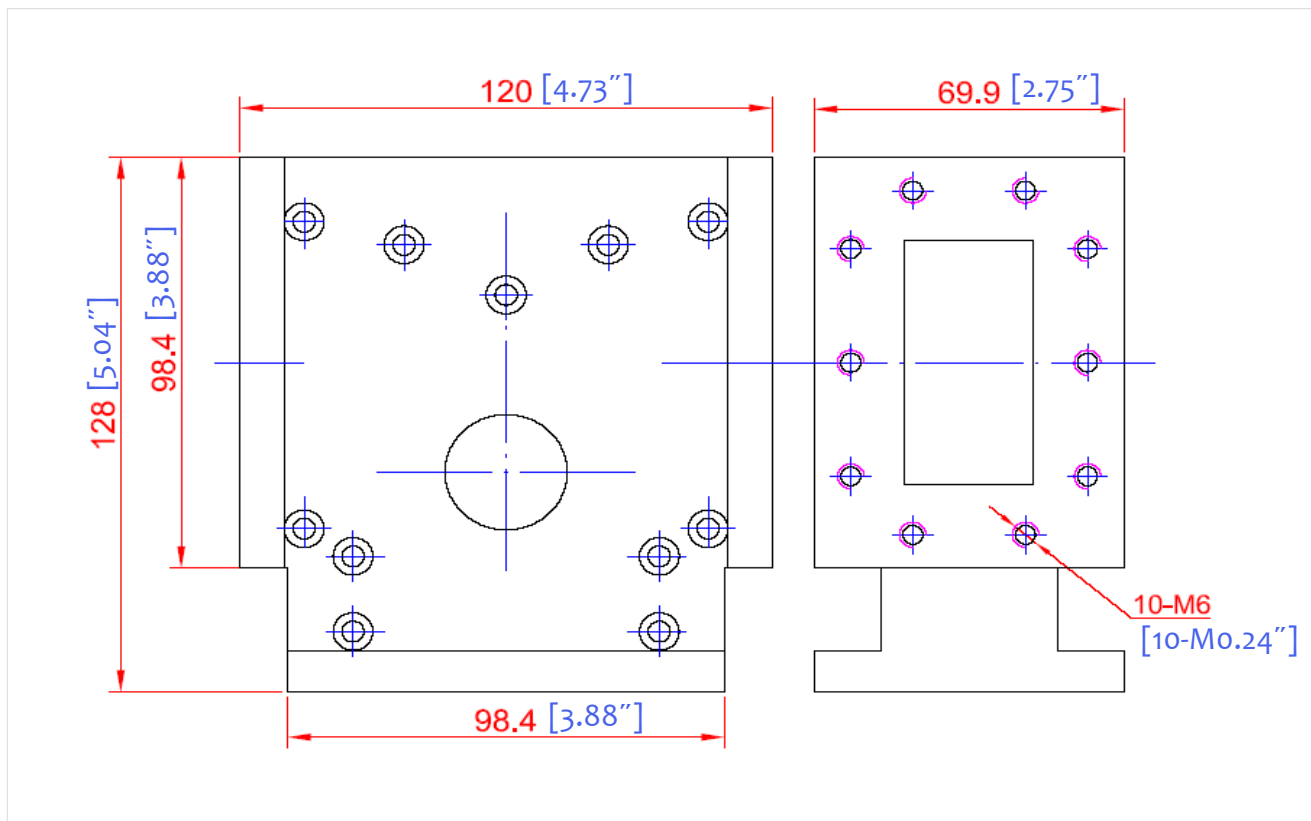


**Environmental Specifications**

Operational Temperature (°C)	-25 ~ +60
Storage Temperature (°C)	-45 ~ +85
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 °C
Shock	20G for 11msec half sine wave, 3 axis both directions

**Outline Drawing:**

All Dimensions in mm [inches]



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