WR12 Waveguide Circulator
76 - 81GHz

Features
- High power handling capability up to 3W
- 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

RoHS Compliant

Electrical Specifications, T_A=25 ℃

Parameter	Min	Typ	Max	Units
Frequency Range	76 - 81			GHz
Insertion Loss			0.80	dB
Isolation (Note 1)	20			dB
VSWR			1.30	: 1
Forward Power (CW)			3	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Interface	COVER flat 4 holes			
Flange Type	UG-387U/G			
Finishing	Conductive Oxide (not painted)			
Case Material	Aluminum Alloy			
Weight				ounces
Impedance	50			Ω

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 detail

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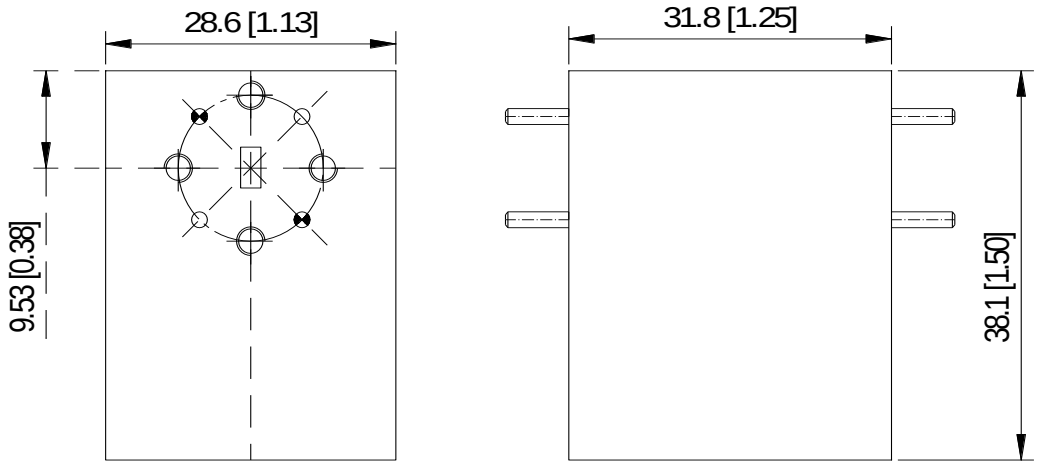
Environmental Specifications

Operational Temperature (°C)	-10 ~ +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 deg c
Shock	20G for 11msec half sine wave, 3 axis both directions

Outline Drawing:

All Dimensions in mm [inches]

WR12	WG26	R740
	UG387/U	
Dimensions	inches	mm
A	0.750	19.05
B	0.563	14.29
C Holes	4-40 UNC-2B	
D Holes	0.063	1.613
E Dowels	0.061	1.555
All Holes	0.563	14.29



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