



### WR62 Waveguide Circulator 12 - 18GHz 200W



#### Features

- High power handling capability up to 200W
- 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	12-18			GHz
Insertion Loss		0.25	0.30	dB
Isolation (Note 1)	20	21		dB
VSWR		1.15	1.20	: 1
Forward Power (CW)			200	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input / Output Interface	COVER flat 4 holes			
Flange Type	UG419/U			
Finishing	Conductive Oxide			
Case Material	Aluminum Alloy			
Weight	3.17			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 >20dB)  
 Ask manufacturer for details

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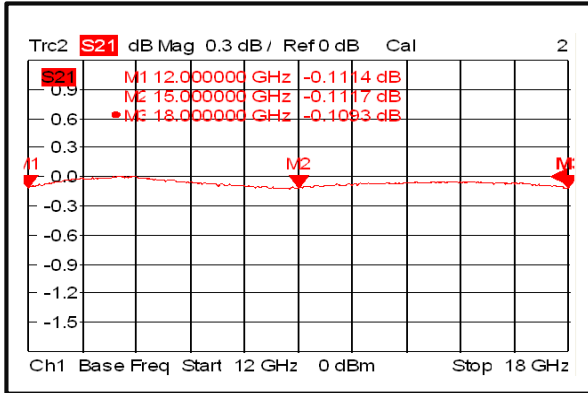


**Environmental Specifications**

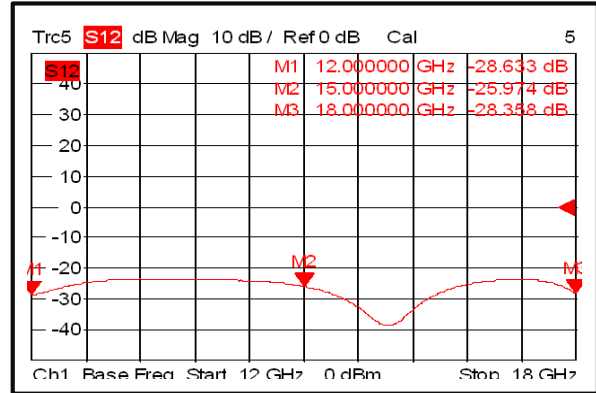
Operational Temperature (°C)	-25 ~ +60
Storage Temperature (°C)	-45 ~ +85
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c,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

**Typical Performance Plots**

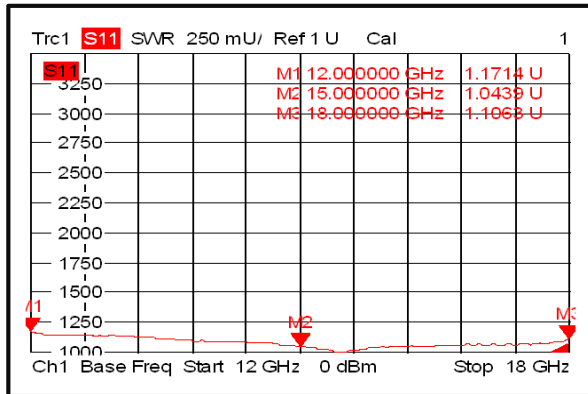
**Insertion Loss**



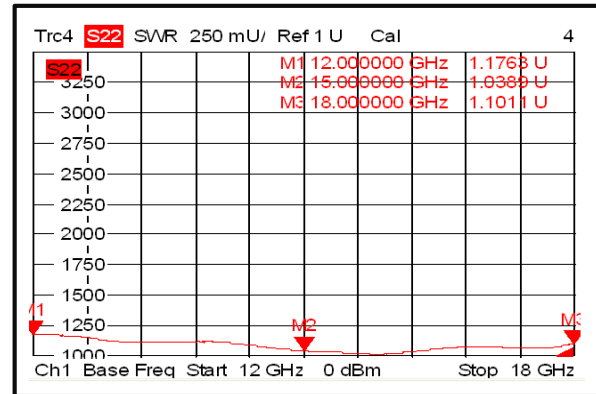
**Isolation**



**VSWR 1**



**VSWR2**

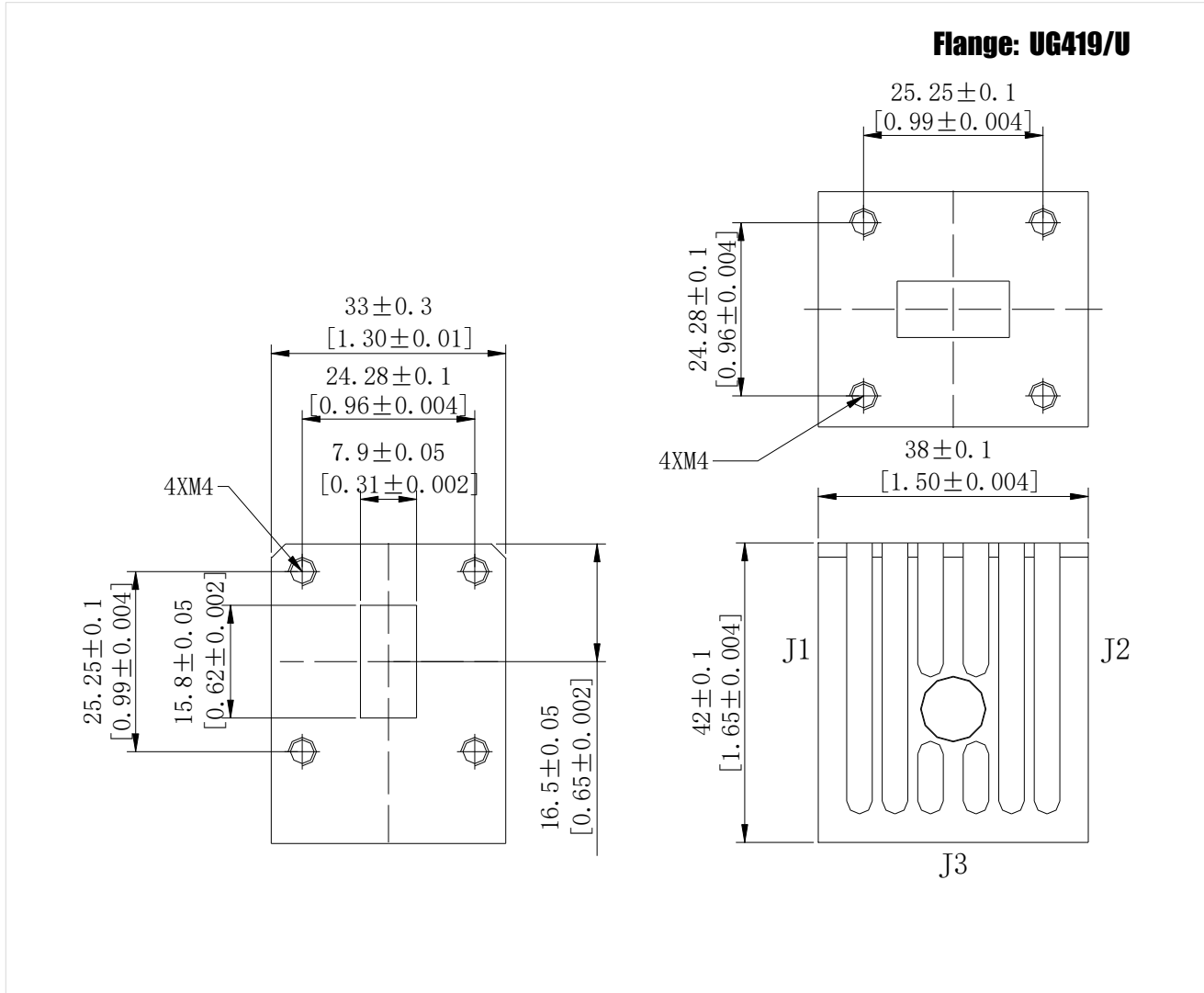


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**Outline Drawing:**

All Dimensions in mm [inches]



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