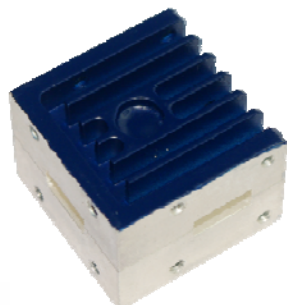




WR42 Waveguide Circulator 18-26.5GHz 25W



Features

- High power handle capability up to 25W
- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Low temperature coefficient ferrite material offer stable performance over temperature
- Aerospace and military application
- LMDS multi-carrier operation
- High peak to average handle capability
- All specifications can be modified upon request

Parameter	Min	Type	Max	Units
Frequency Range	18-26.5			GHz
Insertion Loss	0.20	0.25	0.40	dB
Isolation (Note 1)	20	21	23	dB
VSWR	1.15	1.20	1.25	:1
Forward Power (CW)			25	W
Rotation	Clockwise (Standard) Counter Clockwise (upon request)			
Input /Output Connector	UG 597/U Waveguide COVER Flange 4 Holes Flat			
Finishing	Blue paint			
Case Material	Aluminum alloy			
Operational Temp.	-25		60	°C
Storage Temp.	-45		85	°C
Altitude	15000		TBD	ft.
Weight	40			g
Impedance	50			Ω
Vibration	10g 15 degree 2KHz			RMS
Humidity	100% RH at 35c, 95%RH at 40°C			
Shock	20G for 11msc.			

Note 1: Unit has narrow frequency bandwidth can achieve higher isolation & low 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 manufacture for detail

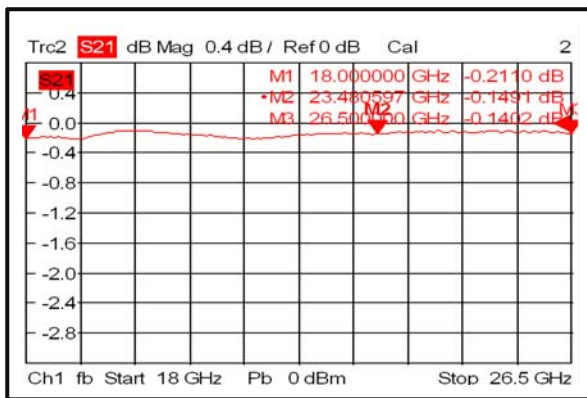


Environment specifications

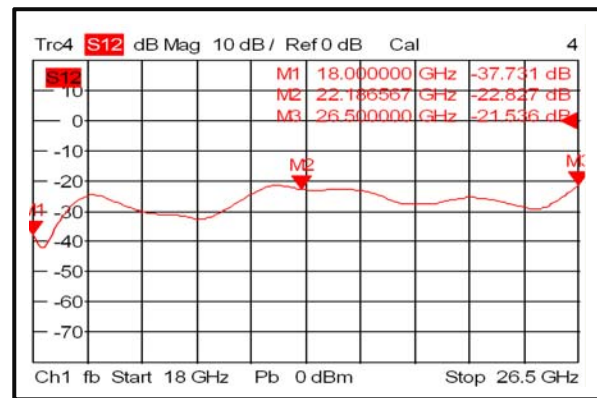
Operational Temperature (C°)	-20 ~ +70
Storage Temperature (C°)	-40 ~ +85
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc half sin wave, 3 axis both directions

performance plots

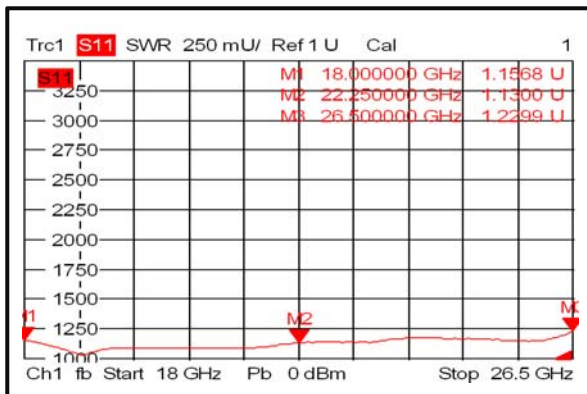
Insertion Loss



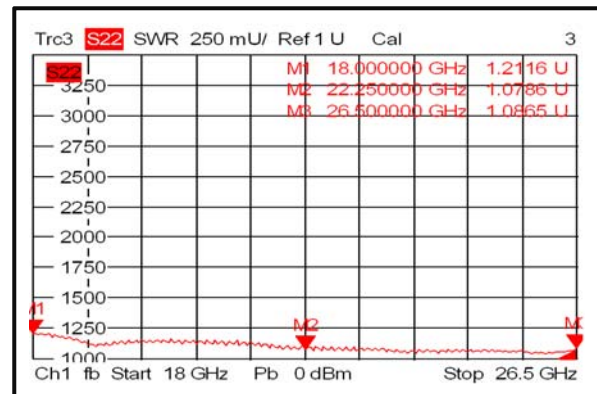
Isolation



VSWR 1



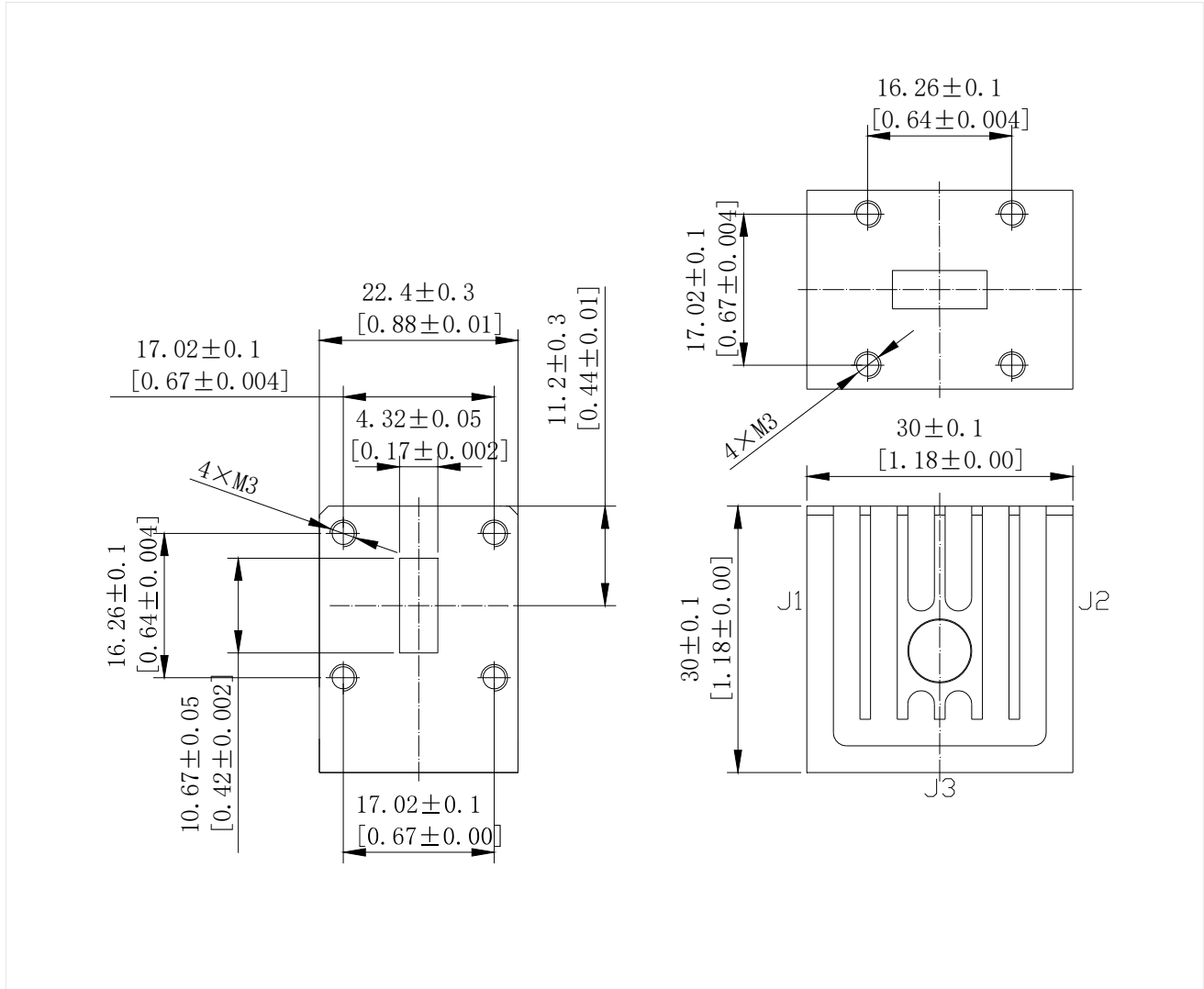
VSWR2





Outline Drawing:

All Dimensions in mm (inches)



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