WR187 Waveguide Circulator
3.95 – 5.80GHz 1000W

Features

- High power handling capability up to 1000W
- 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

RoHS Compliant

Typical Applications

- Aerospace and military applications
- LMDS multi-carrier operation

Electrical Specifications, T_A=25 ℃

Parameter	Min	Typ.	Max	Units
Frequency Range	3.95-5.80			GHz
Insertion Loss			0.50	dB
Isolation (Note 1)	18			dB
VSWR			1.25	:1
Average Power			1000	W
Rotation	Clockwise (Standard) Counter Clockwise (available upon request)			
Input / Output Interface	COVER flat 4 holes			
Flange Type	UG 1729/U			
Finish	Conductive Oxidation			
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 >24dB)
Bandwidth (20~30) % x Center Frequency (Isolation >22dB)
Bandwidth (40~60) % x Center Frequency (Isolation >20dB)
Ask manufacturer for details

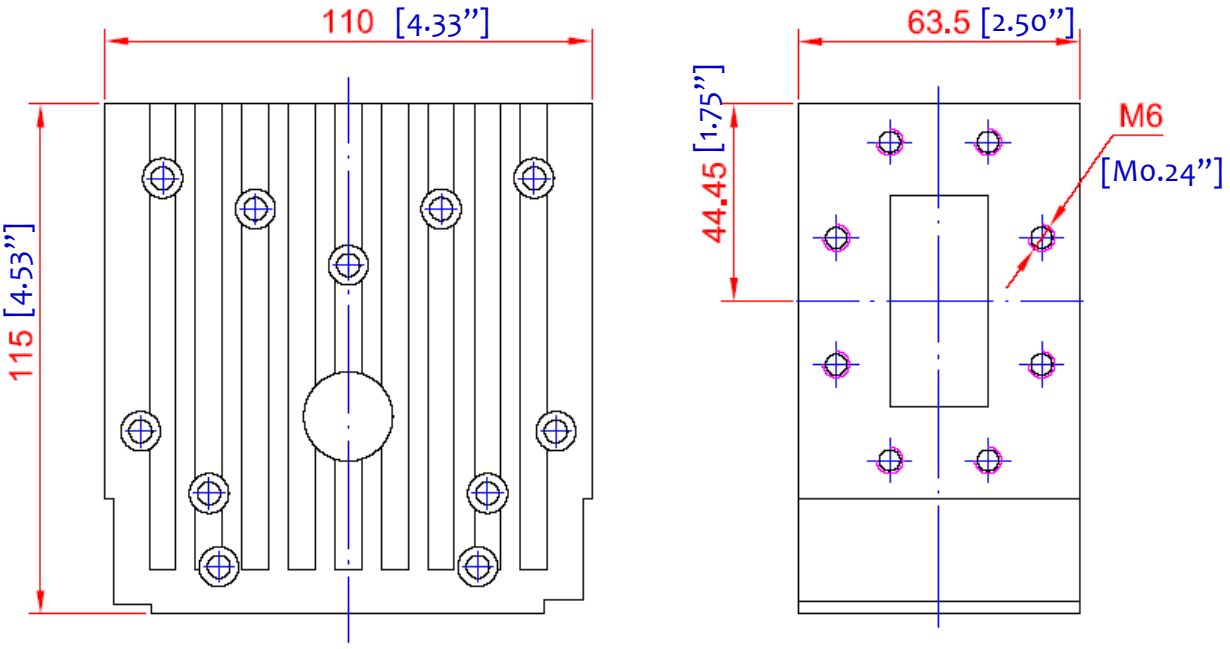
WR187 Waveguide Circulator 3.95- 5.80GHz 1000W

Environmental Specifications and Test Standards

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-20℃~+60℃
Storage Temperature		-20℃~+60℃
Thermal Shock		1 Hour@ -45℃ → 1 Hour @ +85℃ (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85℃ 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	MIL-STD-883 (For Hermetically Sealed Units)

Outline Drawing:

All Dimensions in mm [inches]



Important Notice