



RF-LAMBDA

LEADER OF RF BROADBAND SOLUTIONS

RFWI22B

WR22 Waveguide Isolator 33 - 50GHz 8W

Features

- High power handling capability up to 8 W
- 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, $T_A=25^\circ\text{C}$

Parameter	Min	Typ	Max	Units
Frequency Range	33-50			GHz
Insertion Loss		1.40	1.50	dB
Reverse Isolation (Note 1)	≥ 30 dB @ 33 ~ 46 GHz			
	≥ 25 dB @ 46 ~ 50 GHz			
VSWR		1.40	1.45	: 1
Forward Power (CW)			8	W
Reverse Power (CW)			1	W
Rotation	Clockwise (Standard) Port 3 is a load			
Input / Output Interface	COVER flat 4 holes			
Finish	oxidation			
Flange Type	UG383/U			
Case Material	Aluminum alloy			
Weight				ounces
Impedance				Ω

Note 1: Units which have a narrower frequency bandwidth can achieve higher isolation & lower insertion loss
Bandwidth (5 ~10) % x Center Frequency (Isolation >30dB)
Bandwidth (20~30) % x Center Frequency (Isolation >28dB)
Bandwidth (40~60) % x Center Frequency (Isolation >25dB)
Ask manufacturer for details

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Environmental Specifications

Operational Temperature (°C)	-20 ~ +60°C
Storage Temperature (°C)	-45 ~ +85°C
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]

