

Waveguide WR284 4-Port H-Plane Switch 2.6GHz-3.95GHz



Product Description

The RFWSW284M4AH is a 4 port waveguide switch with a frequency range of 2.6 to 3.95GHz.

The power handling of this switch is 1500W max. The typical insertion loss is 0.2dB and the isolation is 40dB .

The switch's interface is WR284.

The operating temperature of this product is from -40 to +85°C.

Features

- Waveguide Switch
- Insertion Loss +0.2dB
- Isolation 40dB

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

Electrical Specifications (T_A=+25°C)

Parameter	Min	Typ	Max	Units
Frequency Range		2.6 – 3.95		GHz
Insertion Loss		0.2		dB
Isolation		40		dB
Avg. Power			1500	W
Weight		-		lbs.
Interface		WR284		
Control		Manual		
Ports		4-Port		
Plane		H		
Package	Epoxy Sealed (Standard)			
	Hermetically Sealed (Optional)			

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40°C to +85°C (Case Temperature)
Storage Temperature	-60°C to +125°C
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +85°C 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 (For Hermetically Sealed Units)

*For vibration testing details please see additional information section.

Additional Information

Documentation	Webpage
ESD Policy	https://rflambda.com/pdf/rflambda_esd_control.pdf
Connector Torque Specifications	https://www.rflambda.com/pdf/Torque_Specifications.pdf
Random Vibration Test Standard	https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf

Ordering Information

Part Number	Modification	Description
RFWSW284M4AH	WR284	2.6GHz-3.95GHz Waveguide Switch

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