

## WR12 Waveguide Fixed Attenuator 60GHz-90GHz



### Product Description

RFWAT12W001 is a waveguide WR12 attenuator frequency range of 60 to 90GHz.

The average power of the attenuator is 1W. Various attenuation values available.

The waveguide type is WR12.

### Features

- Waveguide Attenuator

### 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<sub>A</sub>=+25°C)

Parameter	Min	Typ	Max	Units
Frequency Range		60-90		GHz
VSWR			1.15	: 1
Attenuation		3-30		dB
Average Power (CW)		1		W
Waveguide		WR12		
Flange type		UG387/U		

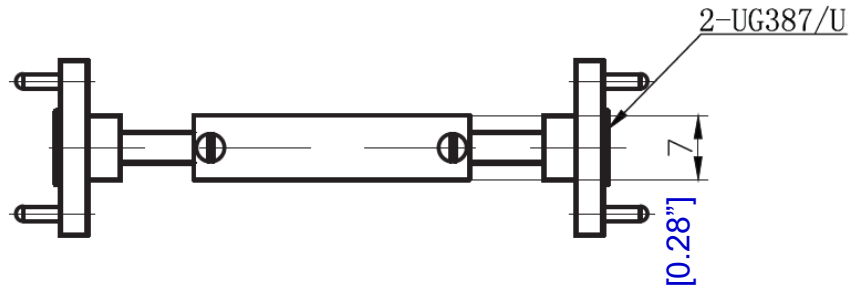
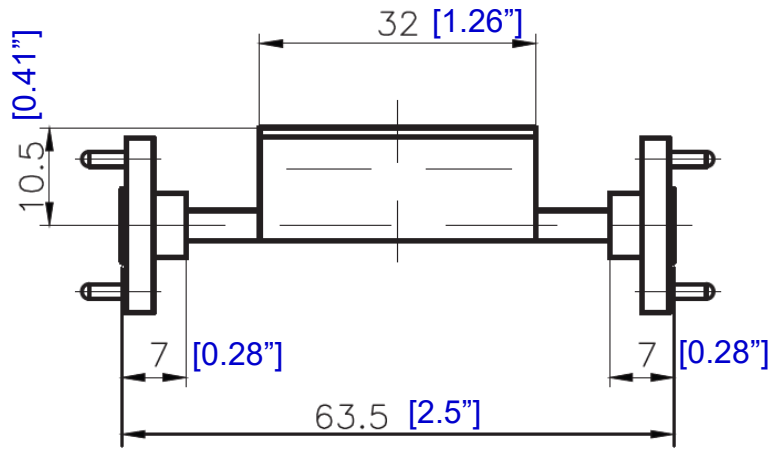
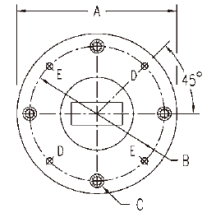
**Environmental Specifications and Test Standards**

Parameter	Description
Operational Temperature	-40°C to +70°C (Case Temperature)
Storage Temperature	-50°C to +105°C
Thermal Shock	-40°C → +70°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.

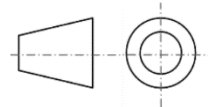
**Outline Drawing**

	WR12	WG26	R740
	UG387/U		
Dimensions	inches	mm	
A	0.750	19.05	
B	0.563	14.29	
C Holes	4-40 UNC-2B		
D Holes	0.063	1.613	
E Dowels	0.061	1.555	
All Holes	0.563	14.29	



Notes:

1. Material: Copper
2. All dimensions are in millimeters [inches].



Additional Information

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

**Ordering Information**

Part Number	Modification	Description
RFWAT12W001	WR12	60GHz-90GHz Waveguide Attenuator

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