

Waveguide Manual Attenuator 8.2GHz-12.4GHz



Product Description

RWMAT90D35 is a waveguide manual attenuator with a frequency range of 8.2 to 12.4GHz.

The power handling of this attenuator is 5W. The attenuation is 35dB with a typical VSWR 1.2:1.

The working temperature of this product is between - 40°C and + 85°C.

Features

- Power handling up to 5W
- Wide Band Operation
- Flat Frequency Response

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, TA = +25°C

Parameter	Min	Typ	Max	Units
Frequency Range	8.2		12.4	GHz
Attenuation	35			dB
VSWR		1.2		: 1
Power Handling (CW)		5		W
Max Peak Power (8us pulse width)		100		W
Weight		-		lbs
Waveguide Type	Rectangular Waveguide WR90			
Flange type	CPRG,CPRF,COVER,CHOKE available			
Flange Holes	Through			
Package	Epoxy Sealed (Standard)			

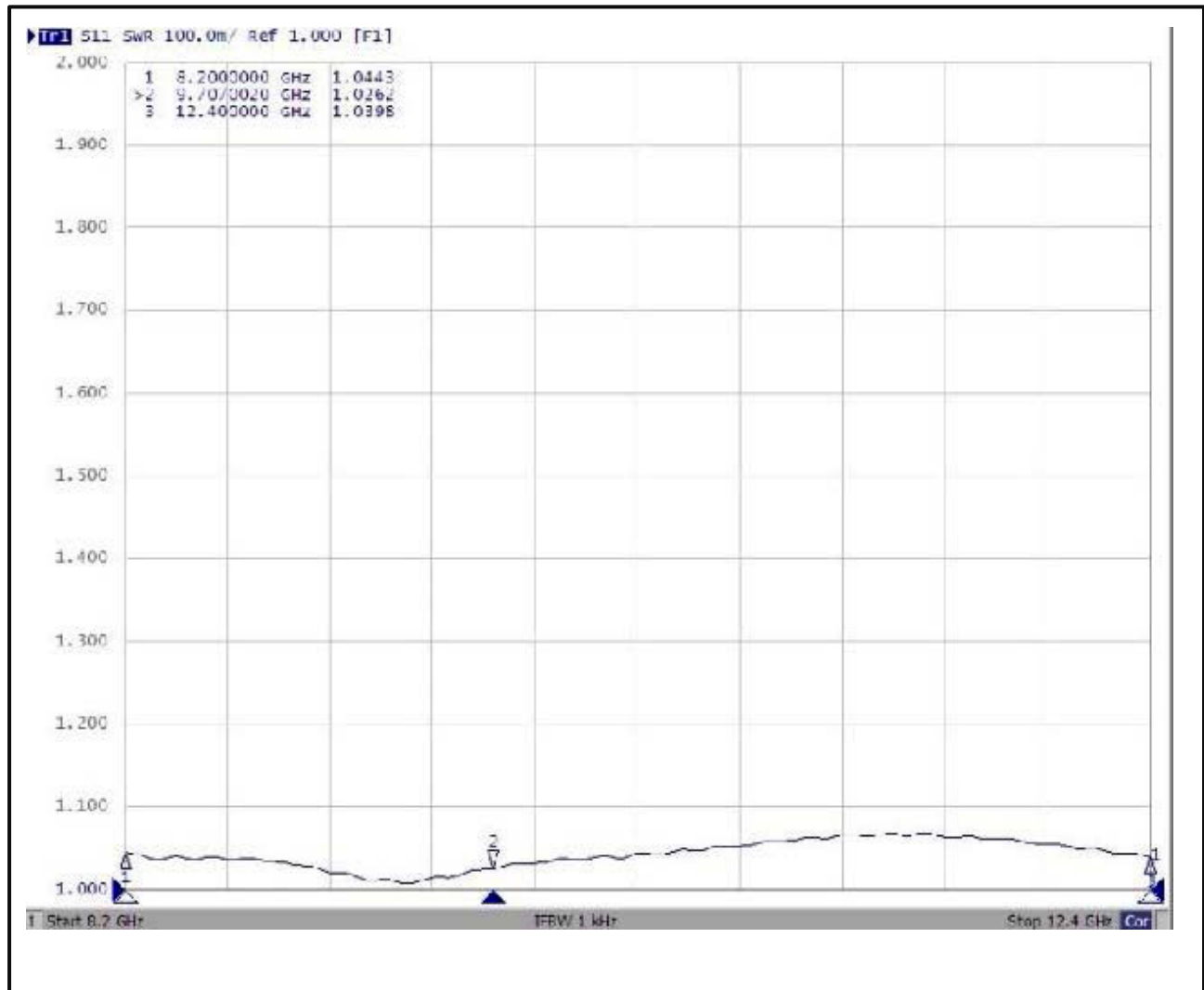
Environmental Specifications and Test Standards

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)

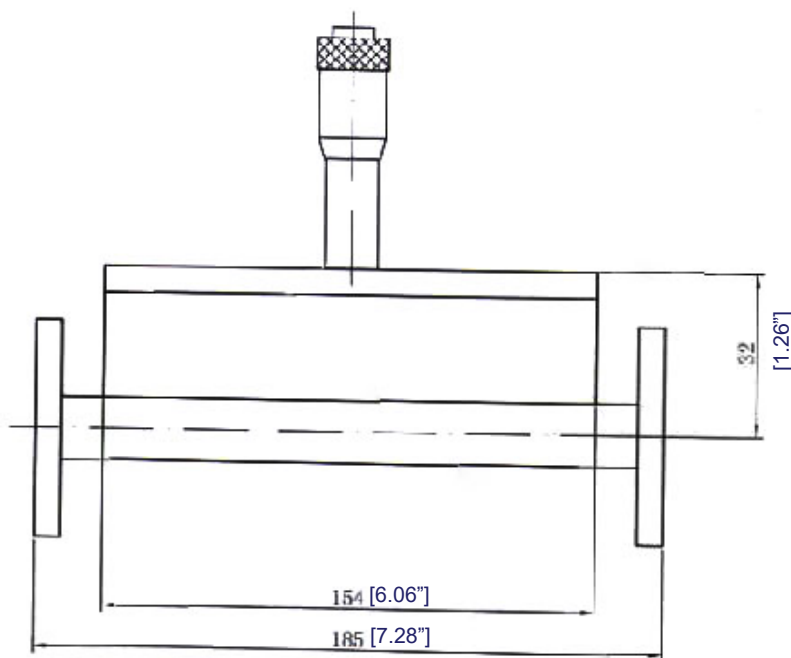
*For vibration testing details please see additional information section.

Typical Performance Plots

VSWR

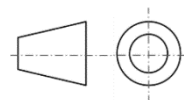


Outline Drawing



Notes:

1. Basis-material: Alloyed Cuprum 0.1kg
2. Internal Body Finish: Silver Plated chromate or conversion;
External Body Finish: Body painted with gray/black epoxy enamel
3. All dimensions are in millimeters [inches].
4. Outline Tolerances ± 0.5 [0.02], Mounting Hole Tolerances ± 0.2 [0.008] unless otherwise specified.



Additional Information

Documentation	Webpage
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
RWMAT90D35	WR90	8.2-12.4GHz Waveguide Manual Attenuator

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