Waveguide WR42 50W Attenuator 17.6GHz–26.7GHz

Note: The photo is for illustration only.
Please refer to the outline drawing.

Product Description

RFWAT42W050 is a waveguide WR42 attenuator frequency range of 17.6 to 26.7GHz.

The average power of the attenuator is 50W. The attenuation range is 3 to 50dB.

The waveguide port is W42.

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_A=+25ºC)

Parameter	Min	Typ	Max	Units
Frequency Range		17.6 – 26.7		GHz
VSWR		1.20		: 1
Attenuation	3		50	dB
Average Power(CW)			50	W
Peak Power			1	KW
Waveguide		WR42		
Flange		UG595/U		

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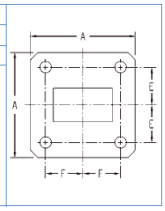
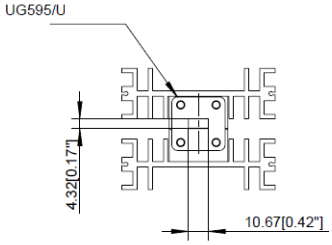
Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-40ºC to +85ºC (Case Temperature)
Storage Temperature	60ºC to +125ºC
Thermal Shock	-40ºC → +85ºC (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 +85ºC 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)

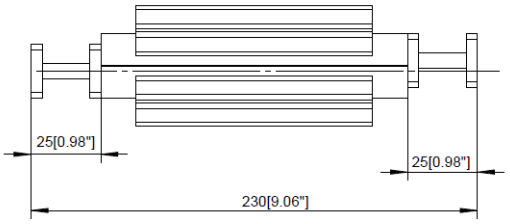
Outline Drawing

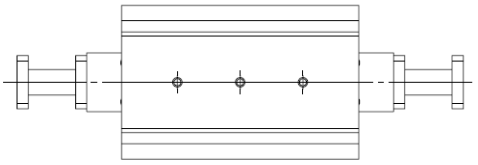
WR42	WG20	R220
UG595/U	UBR220	
Dimensions	inches	mm
A	0.875 [1]	22.41
E	0.335	8.51
F	0.320	8.13
Hole Dia.	0.116 [2]	3.07

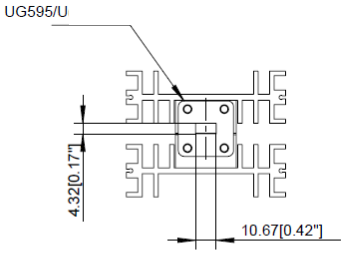




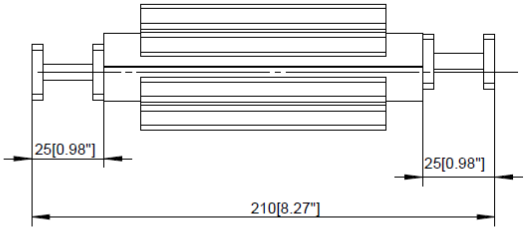
10dB Attenuation

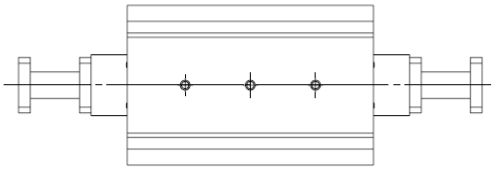


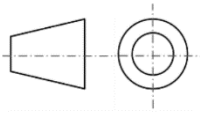




40dB Attenuation







Notes:
1. Material: Brass.
2. Finish: silver plating inside and black painting outside.
3. All dimensions are in millimeters [inches].
4. Other attenuations may have slightly different size. Please inquire.

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
RFWAT42W050	WR42	17.6GHz-26.7GHz Waveguide Attenuator

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