

# 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<sub>A</sub>=+25°C)

Parameter	Min	Тур	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			

RF-LAMBDA USA LLC: www.rflambda.com

Sales: sales@rflambda.com Technical: support@rflambda.com



# **Environmental Specifications and Test Standards**

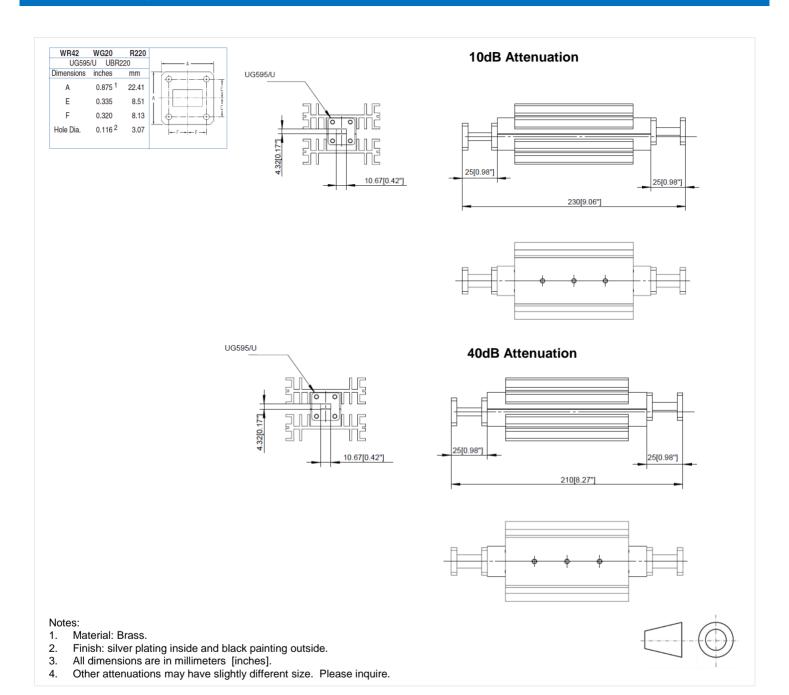
Parameter	Description		
Operational Temperature	-40°C to +85°C (Case Temperature)		
Storage Temperature	60°C to +125°C		
Thermal Shock	-40°C → +85°C (5 Cycles / 10 hours)		
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis		
High Temperature Burn In	Temperature +85°C for 72 Hours		
Shock	Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s     Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s     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)		

RF-LAMBDA USA LLC: www.rflambda.com

Rev 2. 10-27-2023 | Subject to change without notice



# **Outline Drawing**



#### **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		

RF-LAMBDA USA LLC: www.rflambda.com

Sales: sales@rflambda.com Technical: support@rflambda.com



#### **Ordering Information**

Part Number	Modification	Description
RFWAT42W050	WR42	17.6GHz-26.7GHz Waveguide Attenuator

#### Important Notice

The information contained herein is believed to be reliable. RF-Lambda makes no warranties regarding the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for any of the information contained herein. RF-Lambda assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice. Customers should obtain and verify the latest relevant information before placing orders for RF-Lambda products. The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information.

RF-Lambda products are not warranted or authorized for use as critical components in medical, life-saving, or life sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.

RF-LAMBDA USA LLC: www.rflambda.com

Rev 2. 10-27-2023 | Subject to change without notice