

# Manual Rotary Continuous Attenuator 0.9GHz-4GHz



## **Product Description**

RKT100G4A is a manual rotary continuous attenuator with a frequency range of 0.9 to 4GHz.

The power handling of this attenuator is 100W. The attenuation is 10~20dB range with a typical VSWR 1.5:1.

The working temperature of this product is between - 10°C and + 50°C.

#### Features

- Power handling up to 100W
- Wide Band Operation
- Excellent Repeatability and Long Life Switch

#### **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	Тур	Max	Units
Frequency Range		0.9		4	GHz
Attenuation Accuracy	Bandwidth(100MHz)		±0.5		dB
	Bandwidth(200MHz)		±0.75		
Attenuation Range	RKT100G4A10		10		- dB
	RKT100G4A20		20		
Insertion Loss				1	dB
VSWR(Forward)				1.5	: 1
Power			100		W
Weight			-		lbs
Impedance			50		Ohms
Connectors				Ν	



## **Environmental Specifications and Test Standards**

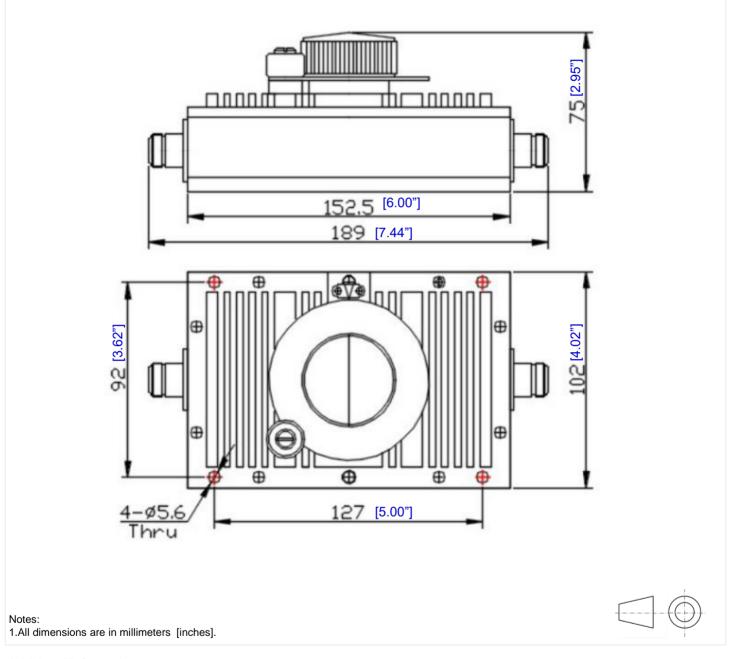
Parameter	Description	
Operational Temperature	-10ºC to +50ºC (Case Temperature)	
Storage Temperature	-40°C to +70°C	
Thermal Shock	-10ºC → +50ºC (5 Cycles / 10 hours)	
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis	
High Temperature Burn In	Temperature +50°C for 72 Hours	
Shock	<ol> <li>Weight &gt;20g, 50g half sine wave for 11ms, Speed variation 3.44m/s</li> <li>Weight &lt;=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s</li> <li>Total 18 times (6 directions, 3 repetitions per direction).</li> </ol>	
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**





#### 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
RKT100G4A10	10dB Attenuation	0.9GHz-4GHz Manual Rotary ContinuousAttenuator
RKT100G4A20	20dB Attenuation	0.9GHz-4GHz Manual Rotary ContinuousAttenuator

#### **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.