

80W Continuously Variable Attenuator 0.9GHz-4GHz



Product Description

RKT80G4A20 is a manual control 80W continuously variable attenuator with a frequency range of 0.9 to 4GHz. The frequency can be tuned to 100MHz or 200MHz bandwidth within these limits.

The max average power of this attenuator is 80W. The attenuation range is 20dB.

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

Features

- Manual Control Continous Variable Attenuators
- Excellent Repeatability and Long Life Switch.
- · Low Deviation from Nominal Value.
- Continuous variable attenuation during operation.
- Higher power is available upon request.
- Custom Configurations Available Upon Request.

Typical Applications

- Wireless Infrastructure
- Military and Aerospace Applications
- Test Instrumentation
- Radar Systems
 5G Wireless Cor
- 5G Wireless Communications
- Microwave Radio Systems
- TR Modules
- Research and Development
- Cellular Base Stations

Electrical Specifications (T_A=+25°C)

Parameters	Min.	Тур.	Max.	Units
Frequency Range (BW 100MHz or 200MHz)	0.9		4	GHz
Attenuation Range		20		dB
Attenuation Accuracy		±1.0		dB
Flatness		0.15		dB
VSWR			1.5	:1
Insertion Loss			0.5	dB
Power Handling		80		Watts
Impedance		50		Ohms
Weight		4.41		lbs
Connectors		N-1	уре	



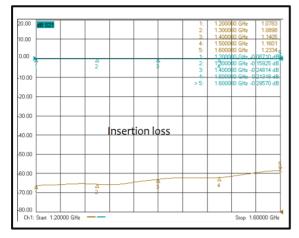
Environmental Specifications and Test Standards

Parameter	Description		
Operational Temperature	-10ºC to +50ºC (Case Temperature)		
Storage Temperature	-40°C to +70°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)		

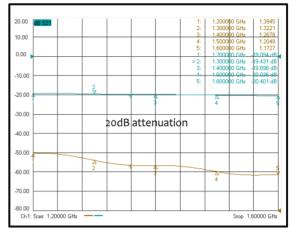


Typical Performance Plots

Insertion Loss (1.2 to 1.4GHz Shown)



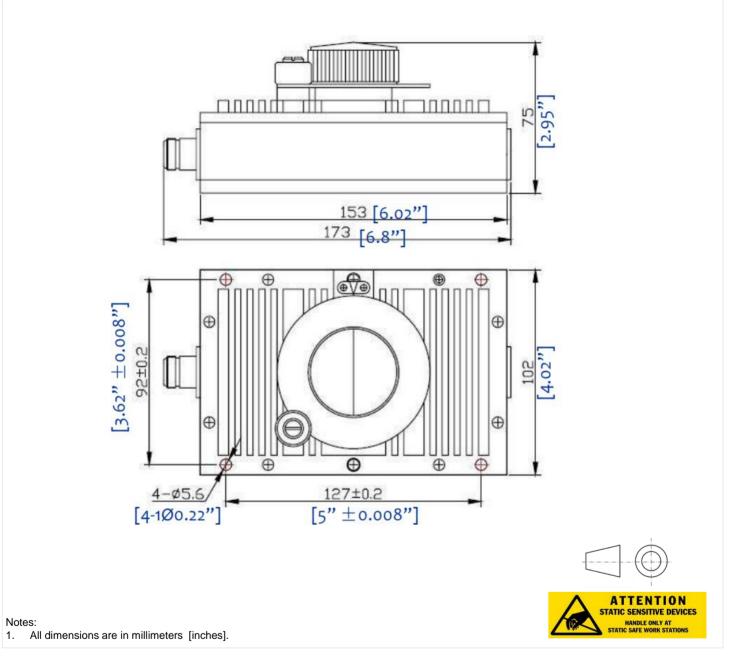
Attenuation 20dB (1.2 to 1.4GHz Shown)



RKT80G4A20



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		

RKT80G4A20



Ordering Information

Part Number	Modification	Description
RKT80G4A20	Connectors N-Type	0.9-4GHz Continuously Variable Attenuators

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