110dB Manual Rotary Attenuator
DC - 12.4GHz

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

Product Description

RKT1G12A110 is a manual rotary attenuator with a frequency range of DC to 12.4GHz.

The power handling of this attenuator is 1W. The attenuation range is 110dB.

The working temperature of this product is between -20℃ and +70℃.

Features

- Compact package
- Adjustable during operation
- 1W CW Power Handling

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

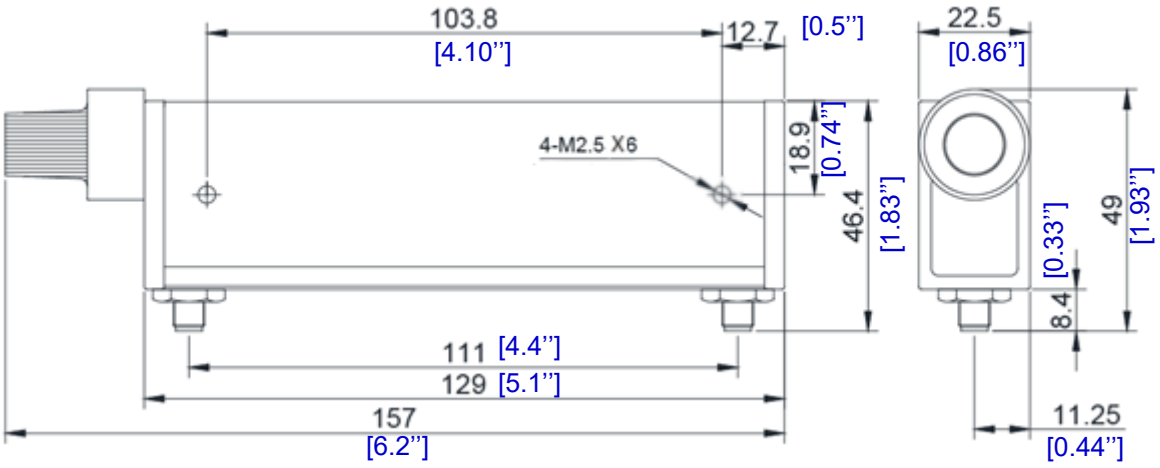
Parameter	Min	Typ	Max	Units
Frequency Range	DC		12.4	GHz
Attenuation Step Size		10		dB
Attenuation Range		110		dB
Attenuation Accuracy		±4.5		dB
Insertion Loss		0.6+0.09 / GHz		dB
VSWR			1.6	: 1
Power (CW)		1 (100W pulse with 10μS width)		W
Bandwidth		10		%
Weight		0.8 Max.		lbs
Impedance		50		Ohms
Connector Type		SMA-Female		

Environmental Specifications and Test Standards

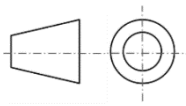
Parameter	Description
Operational Temperature	-20ºC to +70ºC (Case Temperature)
Storage Temperature	-55ºC to +85ºC
Thermal Shock	-20ºC → +70ºC (5 Cycles / 10 hours)
**Random Vibration	MIL-STD-202G Table 214-I, Test Condition Letter C 1.5 Hours Per Axis
High Temperature Burn In	Temperature +50ºC for 72 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.

Outline Drawing



Notes:
1. All dimensions are in millimeters [inches].
2. Standard torque wrench must be used to secure RF connectors.



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
RKT1G12A110	Standard	DC-12.4GHz Manual Rotary Attenuator

Important Notice

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