Rotary Knob Manual Control Step Attenutor DC–8GHz

Product Description

The RKT2G6A90 is a rotary knob manual control step attenutor with a frequency range of DC to 8GHz.

The attenutor's average power is 2W CW.The attenuntion range is 99dB with a attenuation step size of 1dB. The maximum insertion loss is 1.25dB with a VSWR of 1.5:1.

The attenutor's connectors are N-Type.

Features

- Compact package and broadband performance
- Adjustable during operation
- Excellent repeatability low attenuation error
- 2W CW average power

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			DC - 8		GHz
Attenuation Step Size			1		dB
Attenuation Range		0		99	dB
VSWR				1.5	:1
Insertion Loss				1.25	dB
Attenuation Accuracy	(0-9dB@DC-8GHz)		±0.5		dB
	(0-9dB@>8GHz)		±0.8		dB
	(10-19dB)		±1.0		dB
	(20-49dB)		±1.5		dB
	(50-69dB)		±2.0		dB
	(70-99dB)		±2.5/3.5%		dB
Average Power				2	W
Weight			2.3 Max.		lbs.
Impedance			50		Ω
Connectors			N-Male~N-Female		
Finish	Connectors		Brass Nickel Plated		
	Male Pin		Brass Gold Plated		
	Female Pin		Beryllium Copper Gold Plated		
	Housing		Aluminum Anodic Oxidation		

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Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	0ºC to +54ºC (Case Temperature)
Storage Temperature	-40ºC to +70ºC
Thermal Shock	0ºC → +54ºC (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)

*For vibration testing details please see additional information section.

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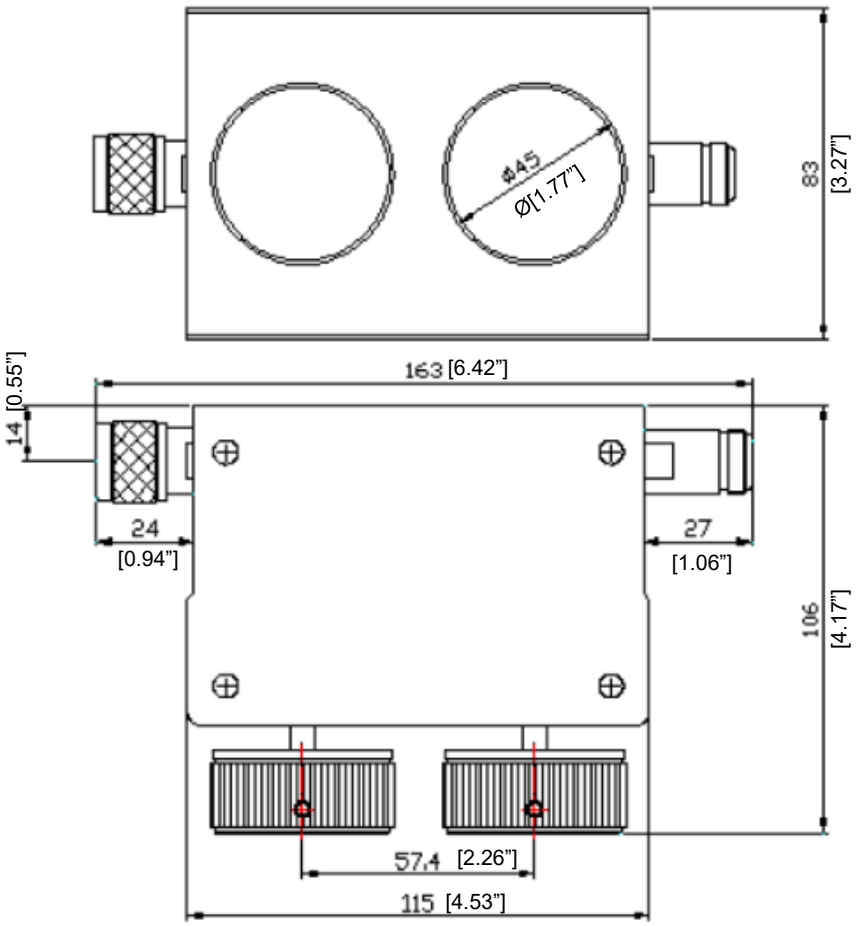
Outline Drawing



Notes:
1. Package Material: Aluminum
2. Finsh : Painted
3. All dimensions are in millimeters [inches].

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
RKT2G6A90	connector N-male and connector N-Female	DC-8GHz Rotary Knob Manual Control Step Attenutor

Important Notice

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