

Manual Control Step Attenutor DC-2.5GHz



Product Description

RKT2G3A40 is a manual control step attenuator with a frequency range of DC to 2.5GHz.

The attenuator's average power is 2W CW. The attenuantion range is 40dB with a attenuation step size of 1dB. The maximum insertion loss is 3.0dB with a VSWR of 1.4:1.

The connectors are SMA-Type or N-Type.

Features

- Very compact package and broadband performance
- Excellent Repeatability
- 50Ω impedance standard

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=+25°C)

Parameter		Min.	Тур.	Max.	Units
Frequency Range			DC - 2.5		GHz
Attenuation Step Size			1		dB
Attenuation Range			40		dB
VSWR				1.4	:1
Insertior	Insertion Loss			3.0	dB
A 44 45 A	single		±0.4		dB
Attenuation Accuracy -	16dB		±0.75		dB
Average Power				2	W
Weig	Weight		0.47		lbs.
Impedance			50		Ω
Connectors			SMA or N		

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Environmental Specifications and Test Standards

Parameter	Description		
Operational Temperature	-10⁰C to +50ºC (Case Temperature)		
Storage Temperature	-40°C to +70°C		
Thermal Shock	-10°C → +50°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)		

^{*}For vibration testing details please see additional information section.

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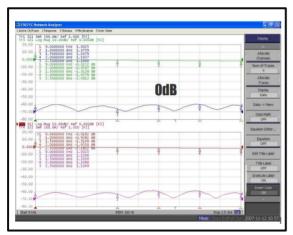
Sales: sales@rflambda.com Technical: support@rflambda.com

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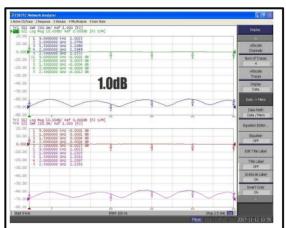


Typical Performance Plots

0dB



1.0dB



4.0dB



8.0dB



10dB



16dB





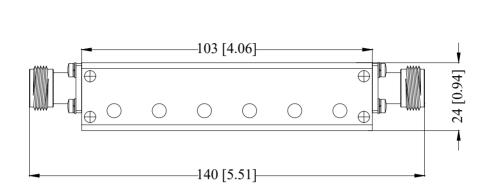
Typical Performance Plots

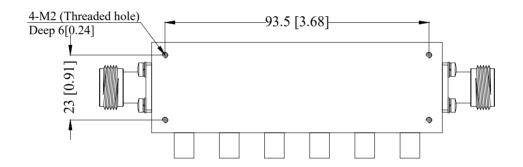
40dB





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	

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Ordering Information

Part Number	Modification	Description
RKT2G3A40	connector SMA orconnector N	DC-2.5GHz Manual Control Step Attenutor

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