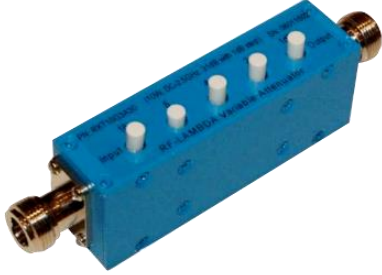


Manual Control Step Attenuator DC-2.5GHz



Product Description

RKT10G3A30 is a manual control step attenuator with a frequency range of DC to 2.5GHz.

The power handling of this attenuator is 10W. The attenuation is 30dB with a typical VSWR 1.4:1.

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

Features

- Power handling up to 10W
- Wide Band Operation
- Compact package

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		2.5	GHz
Attenuation Range		30		dB
Attenuation Step		1		dB
Accuracy	single	±0.4		dB
	16dB	±0.75		
Insertion Loss			2	dB
VSWR			1.4	: 1
Power		10		W
Weight		0.41 Max.		lbs
Impedance		50		Ohms
Connectors			SMA or N	

Environmental Specifications and Test Standards

Parameter	Description
Operational Temperature	-10°C to +50°C (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 +50°C 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)

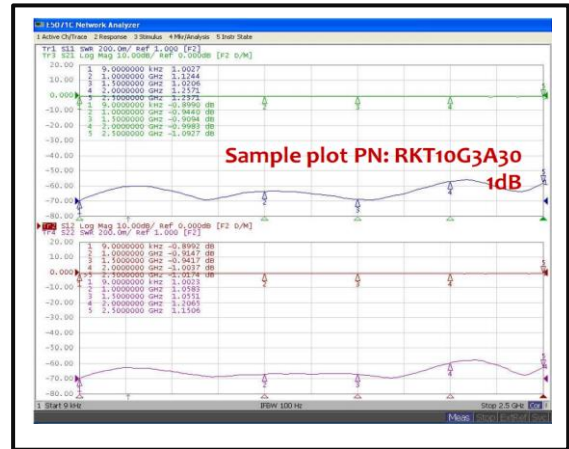
*For vibration testing details please see additional information section.

Typical Performance Plots

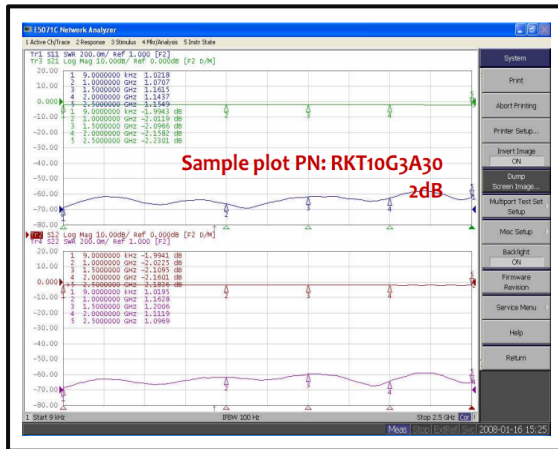
Insertion Loss



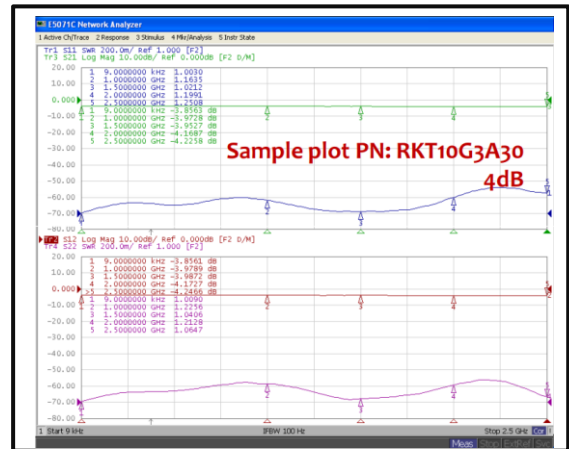
Attenuation 1dB



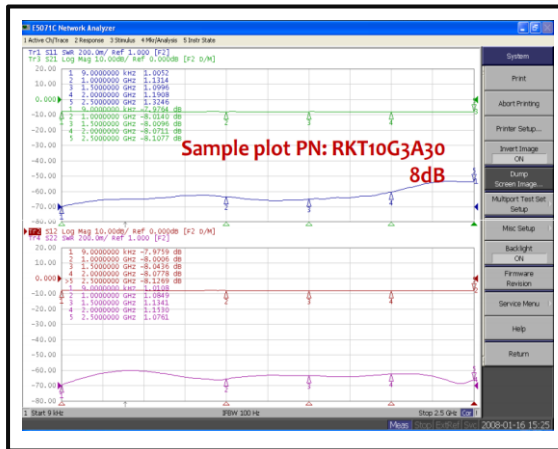
Attenuation 2dB



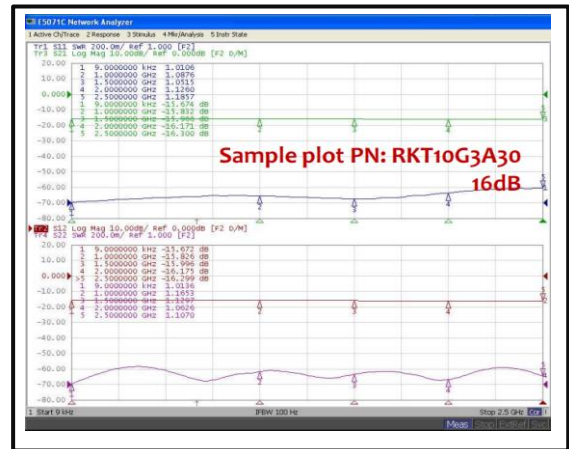
Attenuation 4dB



Attenuation 8dB

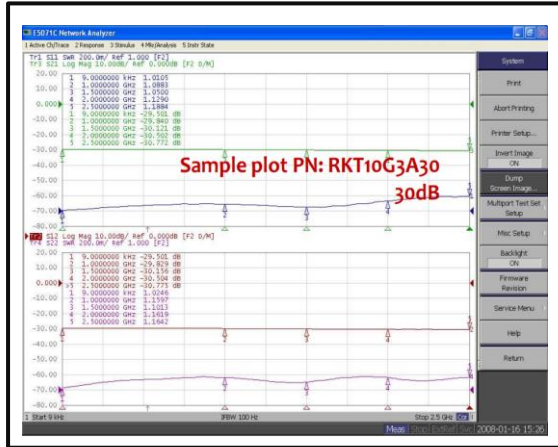


Attenuation 16dB

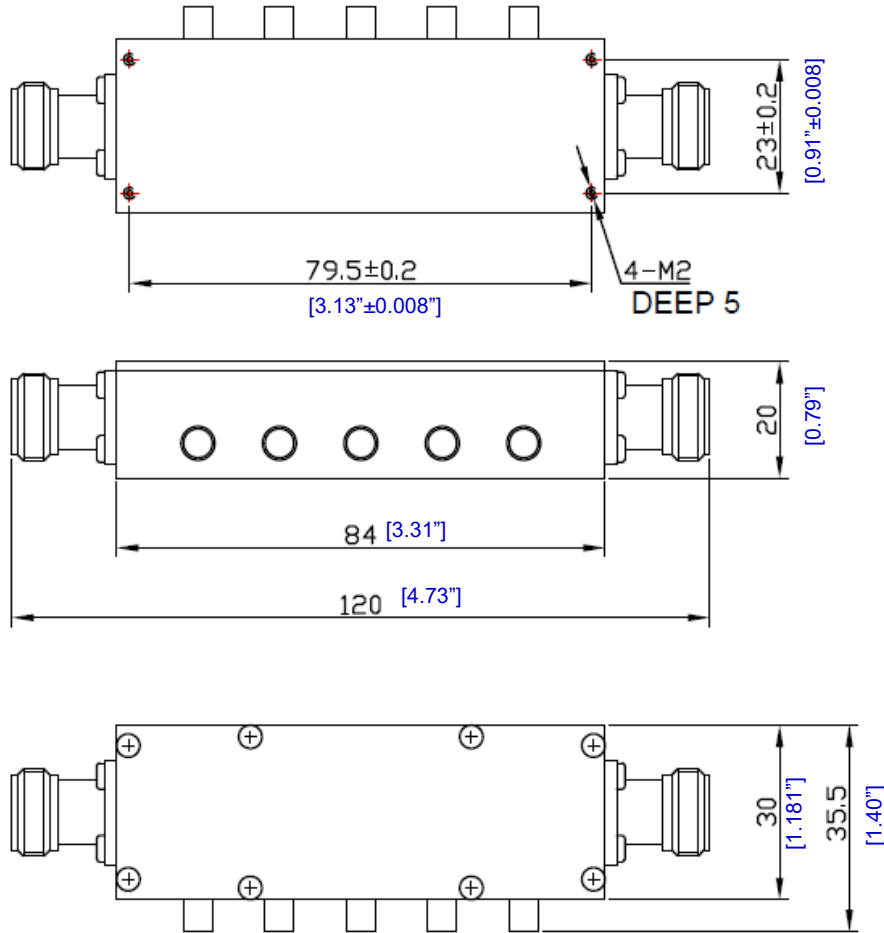


Typical Performance Plots

Attenuation 30dB

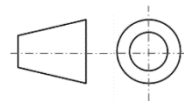


Outline Drawing



Notes:

1. Finish: Blue Paint
3. All dimensions are in millimeters [inches].



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
RKT10G3A30	Connectors SMA or N	DC-2.5GHz Manual Control Step Attenuator

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.