

300W Manual Control Attenuator 0.9GHz-4GHz (10%BW)



Product Description

RKT300G4A10 is a manual control attenuator with a frequency range of 0.9 to 4GHz.

The power handling of this attenuator is 300W. The attenuation range is 10dB.

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

Features

- Continuous variable attenuation during operation
- High power handling up to 300W.

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 (10% BW)	0.9		4	GHz
Attenuation Range		10		dB
Attenuation Flatness		±0.15~±0.5		dB
Insertion Loss		0.5~1.0		dB
VSWR			1.5	: 1
Power (CW)		300 (2KW pulse with 330μs width)		W
Bandwidth		10		%
Weight		4.41 Max.		lbs
Impedance		50		Ohms

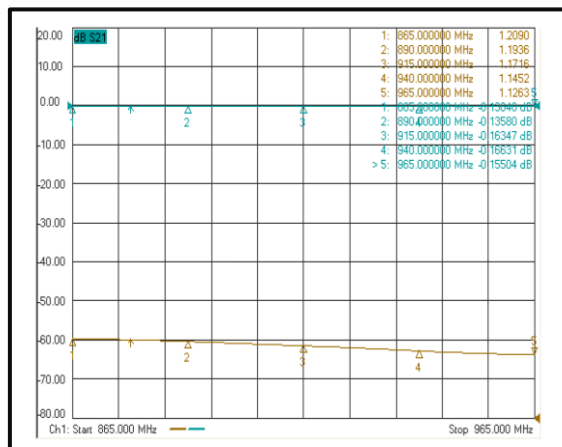
Environmental Specifications and Test Standards

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

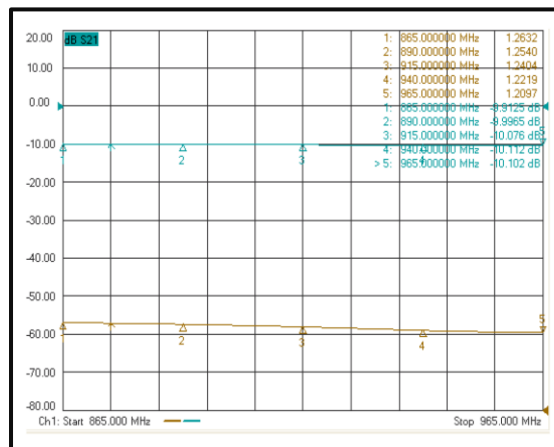
*For vibration testing details please see additional information section.

Typical Performance Plots

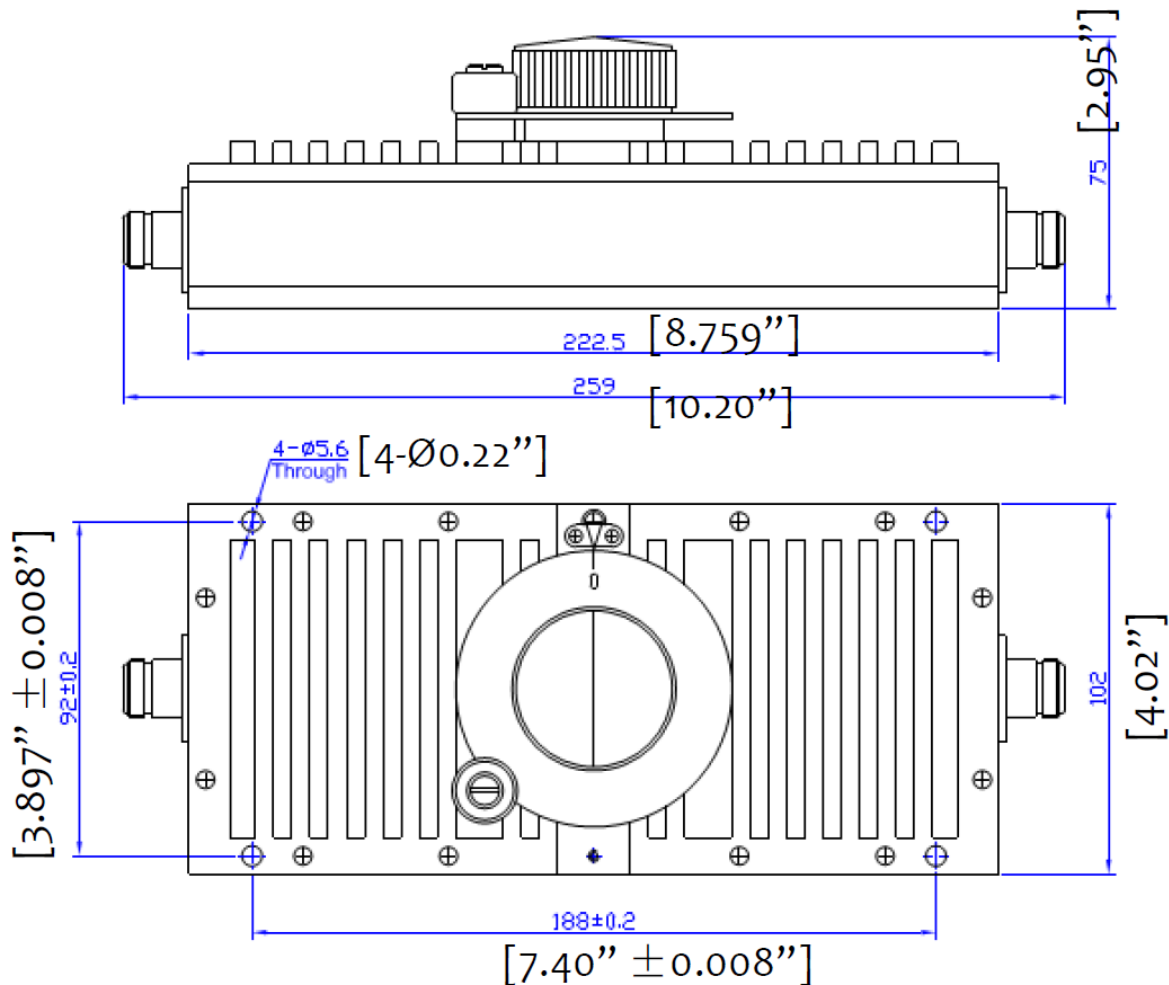
Insertion Loss



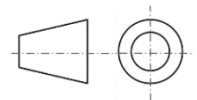
Attenuation



Outline Drawing



Notes:
1. 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
RKT300G4A10	Standard	0.9GHz-4GHz Manual Control Attenuator

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