

## Manual Rotary Attenuator DC-3GHz



### Product Description

RKT2G3A70B is a manual rotary attenuator with a frequency range of DC to 3GHz.

The power handling of this attenuator is 2W. The attenuation is 70dB range with a typical VSWR 1.35:1.

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

### Features

- Power handling up to 2W
- Wide Band Operation
- Excellent Repeatability

### 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

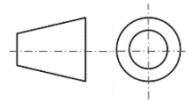
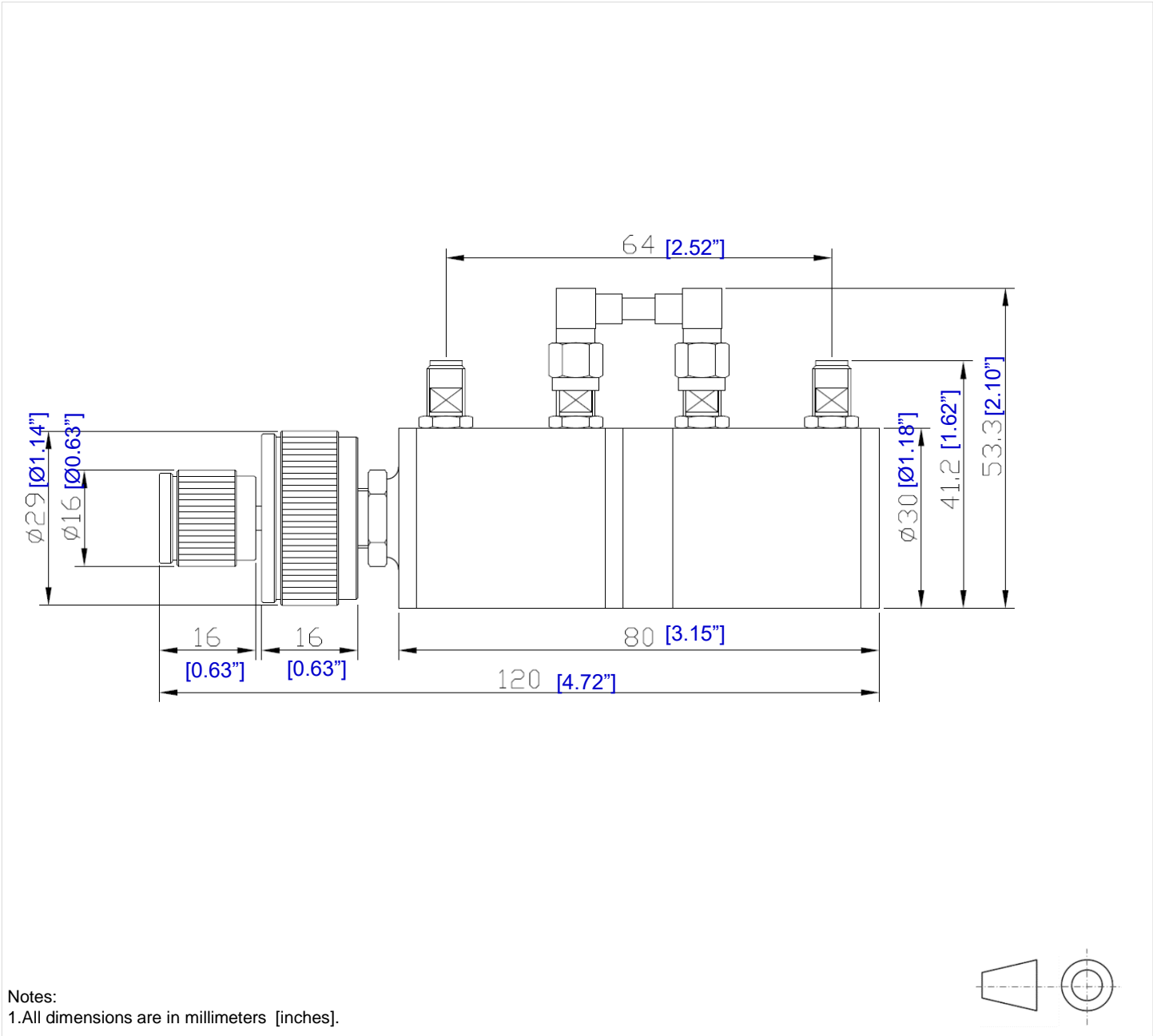
Parameter	Min	Typ	Max	Units
Frequency Range	DC		3	GHz
Attenuation Range		70		dB
Accuracy	≤10dB	±0.3		
	≤60dB	±0.8		dB
	>60dB	±1.5		
Attenuation Step		1		dB
Insertion Loss			1.2	dB
VSWR			1.35	: 1
Power(CW)		2		W
Weight		0.96		lbs
Impedance		50		Ohms
Connectors			SMA	

**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.

**Outline Drawing**



**Additional Information**

Documentation	Webpage
Connector Torque Specifications	<a href="https://www.rflambda.com/pdf/Torque_Specifications.pdf">https://www.rflambda.com/pdf/Torque_Specifications.pdf</a>
Random Vibration Test Standard	<a href="https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf">https://www.rflambda.com/pdf/rflambda_random_vibration_MIL-STD-202G.pdf</a>

**Ordering Information**

Part Number	Modification	Description
RKT2G3A70B	Standard	DC-3GHz Manual Rotary Attenuator

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