SKA-1842447020-0404-A1-M

High Dynamic Range Electrical Attenuator, WR-04

SKA-1842447020-0404-A1-M is a WR-04 electrical attenuator. The attenuator exhibits 7 dB typical insertion loss and 20 dB nominal attenuation across the frequency range of 180 to 240 GHz. The control voltage of the standard model is 0 to -1 VDC. The control speed of the attenuator can go up to 100 ns. The RF input and output ports are WR-04 waveguides with UG-387/U-M anti-cocking flanges, and a female SMA coaxial connector provides the control signal.

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Frequency	180 GHz		240 GHz
Insertion Loss (Bias @ -1V)		7 dB	
Attenuation (Bias @ 0V)		20 dB	
Power Handling			+8 dBm
Control Voltage	-1V		0V
Switching Speed		100 ns	
Specification Temperature		+25°C	
Operating Temperature	0°C		+50°C

Mechanical Specifications:

Item	Specification
RF Ports	WR-04 Waveguide with UG-387/U-M Anti-Cocking Flange
Bias Port	SMA (F)
Case Material	Aluminum
Finish	Gold Plated
Weight	0.8 Oz
Size	1.00'' (L) X 1.00'' (W) X 0.75'' (H)
Outline	KA-A04-A

ECCN

EAR99

FEATURES

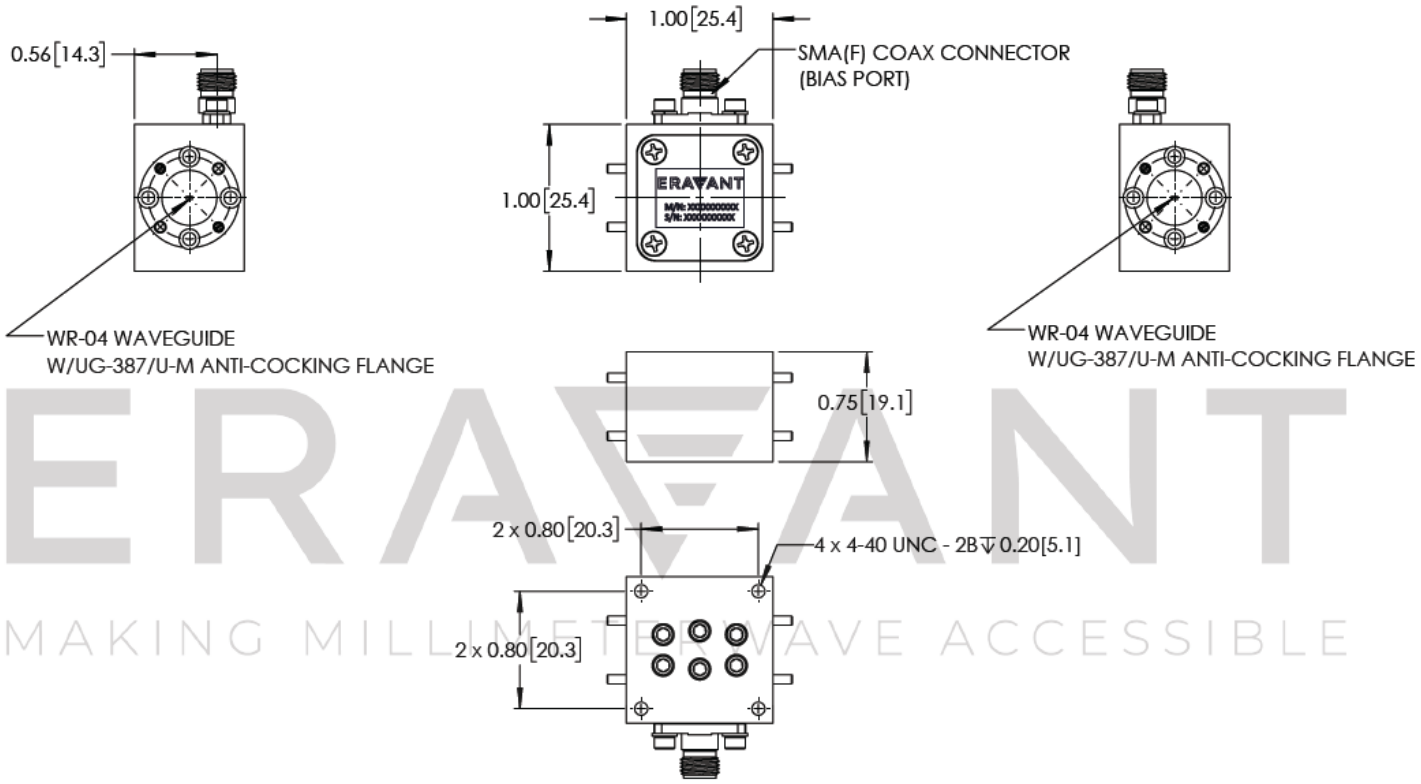
- High Dynamic Range

APPLICATIONS

- THz Systems
- Testing Equipment

SUPPLEMENTAL DETAILS

Mechanical Outline: (Unless otherwise specified, all dimensions are in inches [millimeters])



NOTE:

- On condition that test data is provided it is collected from a sample lot. Actual data may vary slightly from unit to unit. All testing is performed under +25 °C room temperature.
- Other mechanical configurations are available under different model numbers.
- Eravant reserves the right to change the information presented without notice.

CAUTION:

- Exceeding absolute maximum ratings shown will damage the device.
- The switch is a static sensitive device. Always follow ESD rules when working with the switch.
- If a waveguide is present, any foreign objects in the waveguide will cause performance degradation and may damage or destroy the unit.
- For 1.35 mm, 1.85 mm, 2.4 mm, 2.92 mm, and SMA connectors proper torque should be applied: 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm). Torque wrench model SCH-08008-S1 is highly recommended.