

WR-04 Programmable Attenuator, High Power

Description:

Model STA-60-04-P1 is a motorized, programmable rotary vane attenuator for use in millimeterwave systems across the standard WR-04 frequency range of 170 GHz to 260 GHz. The attenuation control is an IEEE-488 (GPIB) and USB port interface to accommodate remote operations from 0 dB to 70 dB. Attenuation increments are 0.05 dB between 0 and 20 dB and 0.1



dB between 20 and 70 dB. On the front panel, a local adjustment switch and digital readout allow for convenient manual operations. When used remotely, the local switch can be locked to prevent inadvertent adjustments. The motor control and interface circuits are custom designed and uniquely packaged within the attenuator housing. The microprocessor based electronics ramp the speed of a precision stepper motor to ensure fast and accurate positioning.

Features:

- Full Band Coverage
- High Attenuation Accuracy
- IEEE-488 and USB Control Port

Applications:

- Test Lab
- Instrumentations
- Auto Test Set

Electrical Specifications:

Parameter	Minimum	Typical	Maximum
RF Frequency Range	170 GHz		260 GHz
Insertion Loss		6.0 dB	15
Attenuation Range	0 dB		70 dB
Attenuation Accuracy	0.1 dB or 3% of reading, whichever is larger, up to 40 dB		
Attenuation Step Size	0.05 dB from 0 to 20 dB and 0.10 dB from 20 to 70 dB		
Control Resolution	0.01 dB Steps from 0 to 70 dB		
Return Loss		15 dB	
Operating Voltage	+24 V _{DC} (100 to 240 V _{AC} Adapter is Supplied)		
Power Handling	AIIIIIIII		10 mW (CW)
Specification Temperature		+25 °C	
Operating Temperature		+25 °C	

^{*}This product is intended to be used in a controlled lab environment.



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To ensure best possible accuracy and prevent unintended behavior, please operate the unit as close to +25 °C room temperature as possible.

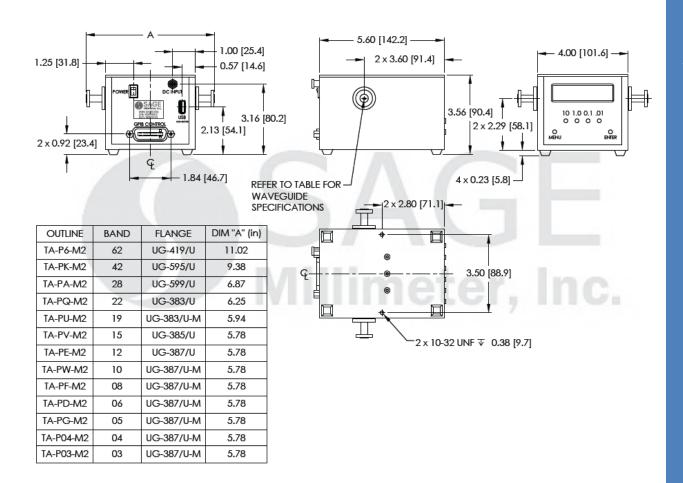


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Mechanical Specifications:

Item	Parameter	
RF Ports	WR-04 Waveguide with UG-387/U-M Flange	
Control Interface	IEEE-488 and USB Port	
DC Bias	2.5 mm DC Jack (AC-to-DC power converter included)	
Finish	Gold Plated Waveguide Flange; Black Anodized Body	
Weight	5 lb	
Outline	TA-P04-M2	

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





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Note:

- Calibration accuracy is 0.1 dB or 3% of the reading, whichever is greater, for attenuation ranges up to 40 dB, 5% up to 50 dB, and "for reference only" above 50 dB.
- All calibration and testing are performed at +25 °C room temperature.
- This product is intended to be used in a controlled lab environment. To ensure best possible
 accuracy and prevent unintended behavior, please operate the unit as close to +25 °C room
 temperature as possible.
- The attenuation flatness is ±2% or ±0.5 dB of the indicated value, whichever is greater, for the frequency band.
- The phase shift value does change while varying the attenuation.
- AC-to-DC power converter with cord is included.
- Eravant reserves the right to change the information presented without notice.

Caution:

- Exceeding absolute maximum ratings shown will damage the device.
- Any foreign objects in the waveguide will cause performance degradation and may damage the device.





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