Description

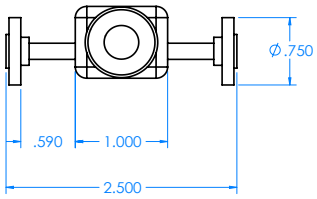
Mi-Wave's 523 Series Micrometer-driven Calibrated Attenuators are compact precision attenuating devices available in standard waveguide sizes from 18.0 to 220 GHz.

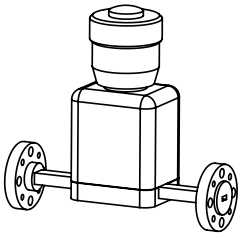
Each attenuator is calibrated at the frequency specified at the time of order, and a curve of attenuation vs. Dial-reading is included with every unit. Calibration curves at other frequencies are also available.

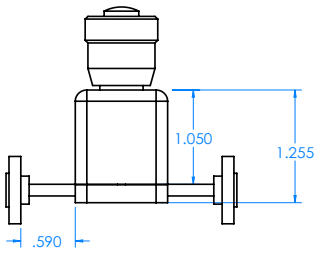
- *High Resolution*
- *Micrometer Readout*
- *Differential Screw Drive*
- *Anti-backlash Operation*
- *Excellent Mechanical Stability*
- *Calibration Accuracy: 0.2 dB or 2%*
- *Calibration Curve Provided at Specified Frequency*

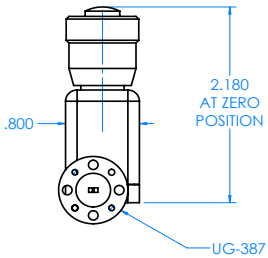
Applications

The 523 Series Micrometer-driven Calibrated Attenuators are designed for laboratory applications in standard waveguide bands from 18.0 to 220.0 GHz. The drive mechanism is designed for the high resolution of vane insertion vs. attenuation characteristics that is required for the small waveguide dimensions associated with the higher millimeter wave frequencies. These attenuators are very useful for insertion loss measurements, and a wide variety of other attenuation and power level determinations.









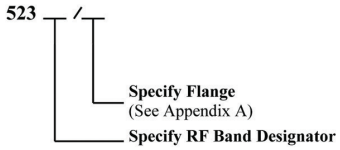
Dimensional Specifications				
Model No.	**A**		**B[1]**	
	in	mm	in	mm
523F	2.0	50.8	3.65	92.9
523D	2.0	50.8	3.65	92.7
523G	2.0	50.8	3.65	92.7

1. 1. 4.15 in. (105.4 mm) maximum dimensions with micrometer fully extended.

Other Bands Available:

- WR-42, 34, 28, 22, 19, 15, 12, and 10.

Ordering Information



Technical Specifications (typical)										
Model No.	**523K**	**523A**	**523B**	**523U**	**523V**	**523E**	**523W**	**523F**	**523D**	**523G**
Frequency Band (GHz)	18–26.5	26.5–40	33–50	40–60	50–75	60–90	75–110	90–140	110–170	140–220
VSWR Max.	1.15	1.15	1.15	1.15	1.15	1.15	1.20	1.25	1.25	1.30
0 Setting (dB)	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.7
Weight (oz)	8.0	6.0	6.0	6.0	3.0	3.0	3.0	2.5	2.5	2.5
Average (Low) Power Handling (Watts)	.3	.3	.3	.2	.2	.1	.1	.1	.1	.1

NOTE:
Please specify center frequency at time of order.

1. Full attenuation range may not be available for all G-band frequencies.