



### Description

Mi-Wave's 515 Series Direct-reading electronic Precision Attenuators provide 0 to 60 dB of calibrated attenuation by rotation of a resistive vane mounted in a circular waveguide section. These units are often referred to as precision rotary vane attenuators.

- High Accuracy to 60dB
- Low VSWR
- Direct Reading
- Low Insertion Loss
- Anti-backlash Drive
- Negligible Phase Shift
- Precision Construction
- Absolute Attenuation Reading

### Applications

The 515 Series Direct-reading Precision attenuators are used in all RF measurement systems. They are most frequently used in RF substitution-type set-ups for precise measurement of characteristics such as isolation, coupling, insertion loss and gain.

Description	Specifications
<b>Attenuation Range</b>	0 dB to 60 dB (typical)
<b>Accuracy</b>	0.1 db or < 1% of the setting
<b>Resolution</b>	0 to 20 db in 0.01 db steps 20 to 60 db its 0.1 db steps Max Setting 60 dB

#### NOTE:

Lower frequency versions are available from 8.4 GHz and up.

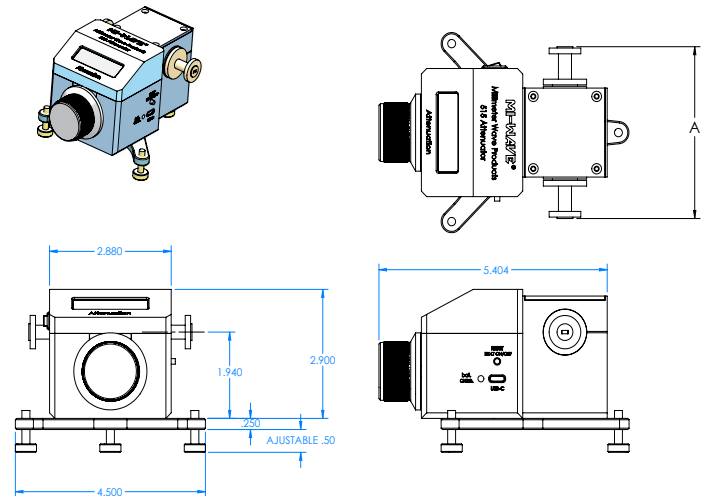
Accuracy is based on calibration of test equipment.

Rechargeable internal battery that will operate the attenuator up to 40 hours with the back light off or 10 hours with the back light on. Operates off a standard USB C cable that will charge the battery and operate the attenuator.

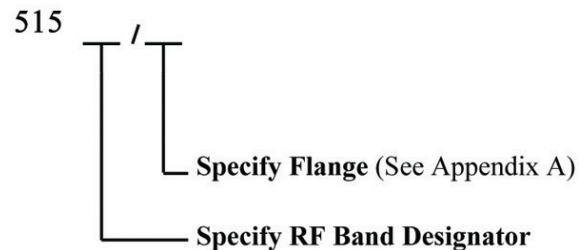
Dimensional Specifications		
Model No.	A	
	in.	mm
515K	8.48	215.0
515A	6.87	174.0
515B	6.25	159.0
515U	5.76	146.0
515V	4.50	114.3
515E	4.50	114.3
515W	4.50	114.3
515F	3.53	89.7
515D	3.44	87.4
515G	3.20	81.3

#### OTHER BANDS AVAILABLE:

- WR-137
- WR-62
- WR-112
- WR-51
- WR-90
- WR-34
- WR-75



### Ordering Information



### Technical Specifications (typical)

Model No.	515K	515A	515B	515U	515V	515E	515W	515F	515D	515G	515H	515J
<b>Frequency Band (GHz)</b>	18–26.5	26.5–40	33–50	40–60	50–75	60–90	75–110	90–140	110–170	140–220	170–260	220–325
<b>Insertion (Loss) (dB)</b>	0.5	0.5	0.6	0.7	0.9	1.0	1.2	1.5	3.0	4.0	5	5.5
<b>VSWR (typical)</b>	1.30	1.15	1.15	1.15	1.20	1.20	1.20	1.25	1.3	1.3	1.3	1.35
<b>Weight (oz)</b>	52	38	38	36	29	28	28	26	24	24	22	22
<b>High Power (watts)</b>	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
<b>Low Power (watts)</b>	n/a	n/a	n/a	n/a	3	3	3	n/a	n/a	n/a	n/a	n/a