



New Models Available

From WR-137 to WR-62 Waveguide Bands

Description	Specifications
Attenuation Range	0 dB to 60 dB (typical)
Accuracy	0.1 dB or 2% of reading*
Scale Increments	0.0 dB to 0.1 dB – 0.01 dB 0.1 dB to 1.0 dB – 0.05 dB 1.0 dB to 10.0 dB – 0.20 dB 10.0 dB to 20.0 dB – 0.20 dB 20.0 dB to 30.0 dB – 0.5 dB 30.0 dB to 50.0 dB – 1.0 dB Max Setting 60 dB

***NOTE:**

Lower frequency versions are available from 8.4 GHz and up.

Accuracy is based on attenuation settings. Consult Miwave for specifications

Dimensional Specifications		
Model No.	A	
	in.	mm
510K	8.48	215.0
510A	6.87	174.0
510B	6.25	159.0
510U	5.76	146.0
510V	4.50	114.3
510E	4.50	114.3
510W	4.50	114.3
510F	3.53	89.7
510D	3.44	87.4
510G	3.20	81.3

OTHER BANDS AVAILABLE:

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

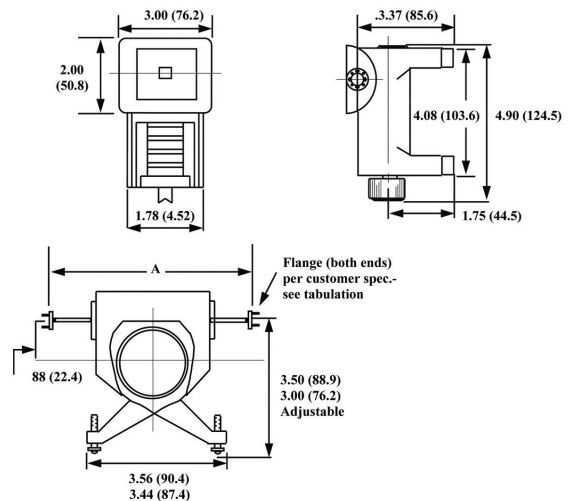
Description

Mi-Wave's 510 Series Direct-reading 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.

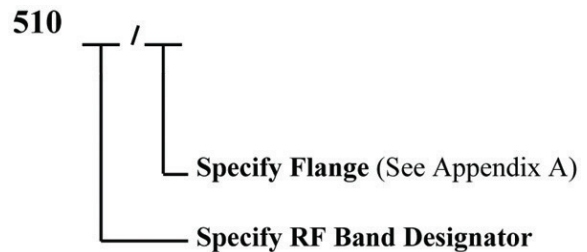
Applications

The 510 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.

- *Low VSWR*
- *Direct Reading*
- *Low Insertion Loss*
- *Anti-backlash Drive*
- *Negligible Phase Shift*
- *Precision Construction*
- *Frequency Independent*



Ordering Information



Technical Specifications (typical)												
Model No.	510K	510A	510B	510U	510V	510E	510W	510F	510D	510G	510H	510J
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	170–260	220–325
Insertion (Loss) (dB)	0.5	0.5	0.6	0.7	0.9	1.0	1.2	1.5	3.0	4.0	5	5.5
VSWR¹ (typical).	1.30	1.15	1.15	1.15	1.20	1.20	1.20	1.25			1.3	1.35
Weight (oz)	52	38	38	36	29	28	28	26	24	24	22	1
High Power(watts)	100	80	60	40	30	25	15	10	5	3	2	1
Low Power(watts)	1.0	0.5	0.5	0.4	0.3	0.2	0.2	0.1	0.1	0.1	0.05	0.05