

511 Series

Programmable Rotary Vane Attenuators

Description

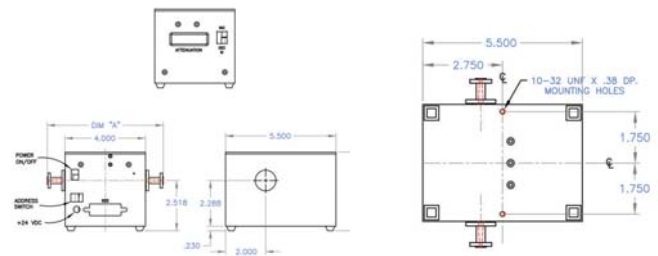
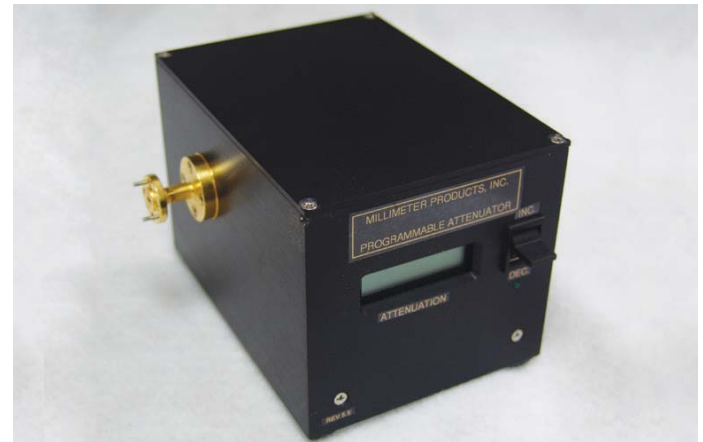
Mi-Wave's 511 Series Precision Programmable Rotary Vane Attenuators are available in full waveguide bands from 5.0 to 220.0 GHz. Attenuation control is performed manually via a front panel or remote controlled using a standard IEEE-488 interface. The attenuators' small compact size incorporates both the electronic controller and microwave components. The unit operates from a single +24 volt DC source or with an optional AC adapter.

- *Low Cost*
- *Compact Size*
- *5.0 to 220 GHz*
- *High Accuracy*
- *Highly Reliable*
- *Digital Readout*
- *Low Insertion Loss*
- *IEEE-488 Interface*
- *Full Waveguide Bands*
- *Manual Operation Mode*

Attenuation range is from 0 to 60 dB in 0.1 dB steps with 0.05 dB steps from 0 to 20 dB. A digital readout is provided on the front panel to display attenuation settings. The attenuators are highly reliable and designed to be used in ATE and remote power control applications. USB interface available.

Applications

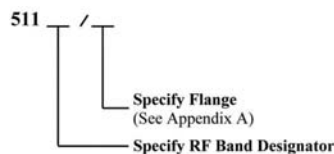
- Fade Margin Testing of Microwave Radios
- Remote Control of RF Power Levels
- Fade Margin Testing of Microwave Radio Equipment
- Instrumentation



Technical Specifications (typical)					
Model No.	Frequency Band	Waveguide	Insertion Loss	VSWR	Power
	GHz	WR	Max.	Max.	Max.
511XL	7.0–10.0	112	0.5 dB	1.2:1	5 watts
511X	8.2–12.4	90	0.5 dB	1.2:1	2 watts
511XS	10.0–15.0	75	0.5 dB	1.25:1	2 watts
511KU	12.4–18.0	62	0.5 dB	1.25:1	2 watts
511K	18.0–26.5	42	0.5 dB	1.15:1	1 watt
511A	26.5–40.0	28	0.5 dB	1.15:1	0.5 watt
511B	33.0–50.0	22	0.6 dB	1.15:1	0.5 watt
511U	40.0–60.0	19	0.7 dB	1.15:1	0.4 watt
511V	50.0–75.0	15	0.9 dB	1.20:1	0.3 watt
511E	60.0–90.0	12	1.0 dB	1.2:1	0.2 watt
511W	75.0–110.0	10	1.3 dB	1.2:1	0.2 watt
511F	90.0–140.0	8	1.5 dB	1.3:1	0.1 watt
511D	110.0–170.0	7	3.0 dB	1.3:1	0.1 watt
511G	140.0–220.0	5	3.0 dB	1.3:1	0.1 watt

Dimensional Specifications										
Model No.	A		B		C		D		E	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
511XL	11.69	296.9	4.66	118.3	6.32	160.5	4.04	102.6	2.29	58.2
511X	11.69	296.9	4.66	118.3	6.32	160.5	4.04	102.6	2.29	58.2
511XS	11.19	284.2	4.66	118.3	6.32	160.5	4.04	102.6	2.29	58.2
511KU	10.94	277.8	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511K	8.48	215.4	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511A	6.87	174.5	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511B	6.24	158.4	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511U	5.74	145.7	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511V	6.24	158.4	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511E	5.74	145.7	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511W	6.24	158.4	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511F	5.74	145.7	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511D	6.24	158.4	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511G	5.74	145.7	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2

Ordering Information



EXAMPLE:

511A/599
Frequency range 26.5 to 40 GHz
UG-599/U Flange