

511 Series Programmable Rotary Vane Attenuators



Features

- Low Cost
- Compact Size
- 7.0 to 170 GHz
- High Accuracy
- Highly Reliable
- Digital Readout
- Low Insertion Loss
- IEEE-488 Interface
- Full Waveguide Bands
- Manual Operation Mode

Description 511 Series Attenuators

Mi-Wave's 511 series precision programmable rotary vane attenuators are available in full waveguide bands from 7.0 to 220.0 GHz. Attenuation control is either 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.

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.

RS-232 Control Also Available

Applications

Instrumentation

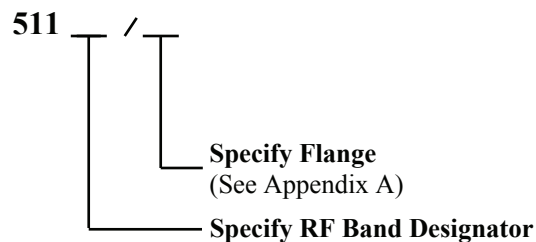
Remote Control of RF Power Levels

Fade Margin Testing of Microwave Radios

Fade Margin Testing of Microwave Radio

Equipment

Ordering Information



Example :

511A/599

Frequency Range 26.5 to 40 GHz
UG-599/U Flange

Mi-Wave

Millimeter Wave Products Inc.

www.miwv.com

2200 Tall Pines Drive, Suite 100

Largo, FL 33771

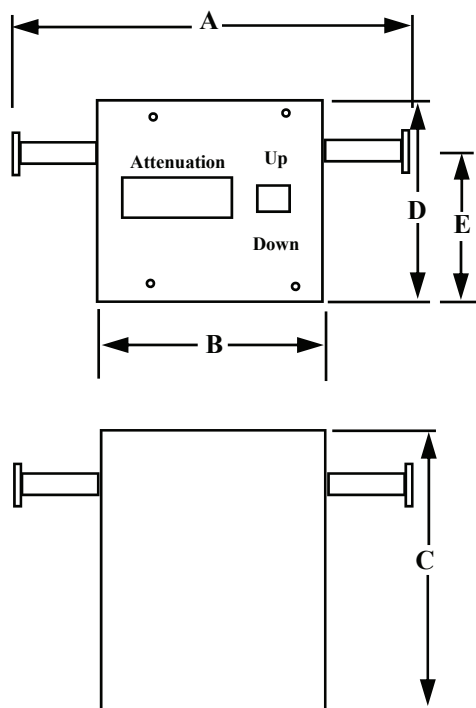
Tel. (727) 536-0033 Fax. (727) 536-0012

E: sales@miwv.com

511 Series Programmable Rotary Vane Attenuators

Technical Specifications

Model Number	Frequency Band (GHz)	Waveguide (WR)	Insertion Loss (Max.)	VSWR (Max.)	Power (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	0.8 dB	1.20:1	0.3 watt
511E	60.0 - 90.0	12	1.0 dB	1.2:1	0.25 watt
511W	75.0 - 110.0	10	1.0 dB	1.2:1	0.25 watt
511F	90.0 - 140.0	8	1.2 dB	1.3:1	0.2 watt
511G	110.0 - 170.0	5	1.4 dB	1.3:1	0.2 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	4.50	114.3	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511E	4.50	114.3	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511W	4.50	114.3	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511F	4.50	114.3	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2
511G	4.50	114.3	4.00	101.6	5.50	139.7	3.50	88.9	2.29	58.2

Mi-Wave

Millimeter Wave Products, inc.

Tel. (727) 536-0033 Fax. (727) 536-0012 Email. sales@miwv.com