MI-WAVE Millimeter Wave Products Inc.

Description

Mi-	Wave's	511	Se	ries	Ρ	recis	sion		
Programmable			Rotary		/	Vane			
Atten	nuators	are	av	ailab	le	in	full		
wave	guide	band	ls	fron	n	7.0	to		
220GHz. Attenuation control is									
perfo	ormed i	manu	ally	via	a	a fi	ront		
panel or remote controlled using a									
standard IEEE-488 or USB interface.									
The attenuators small compact size									
incor	porates	bot	h t	the	ele	ectro	onic		
contr	oller a	and	th	e i	mic	row	ave		
components. The unit operates from									
a single +24 Volt DC source or with									
an op	otional a	dapte	er.						

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

Attenuation range is from 0 to 70 dB in .01 dB steps from 0 to 70 dB. A digital readout is provided on the front panel to display attenuation settings. USB & GPIB interface available. Tested to over 1 million cycles

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New company proprietary internal absorbing material that will handle high power levels and yield low insertion loss and mode free operation to 70 db attenuation levels.

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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	20 watt
511X	8.2–12.4	90	0.5 dB	1.2:1	20 watt
511XS	10.0–15.0	75	0.5 dB	1.25:1	20 watt
511KU	12.4-18.0	62	0.5 dB	1.25:1	20 watt
511K	18.0-26.5	42	0.5 dB	1.15:1	20 watt
511A	26.5-40.0	28	0.5 dB	1.15:1	20 watt
511B	33.0-50.0	22	0.6 dB	1.15:1	15 watt
511U	40.0-60.0	19	0.7 dB	1.15:1	15 watt
511V	50.0-75.0	15	0.9 dB	1.20:1	15 watt
511E	60.0-90.0	12	1.0 dB	1.2:1	10 watt
511W	75.0–110.0	10	1.3 dB	1.2:1	2 watt
511F	90.0-140.0	8	1.5 dB	1.3:1	1 watt
511D	110.0–170.0	7	3.0 dB	1.3:1	1 watt
511G	140.0-220.0	5	3.0 dB	1.3:1	0.5 watt



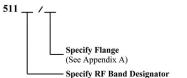


511 v2 Upgrades Include:

- Attenuation from 0 to 70 dB
- USB & IEEE-488 Interface
- Higher Speed
- Less than 2sec. to change attenuation level from 0 to 70 dB
- Significantly Quiet Operation
- Programmable GPIB address (now goes up to 30),
- "xx.xx dB Command Complete," message sent via USB or GPIB after attenuation level is reached
- Rocker switch replaced by LED buttons for changing

- Attenuation levels efficiently
 and quickly
- Interactive User Menu
- Improved resolution with 0.01
 steps from 0 to 70 dB
- Backlit Display
- Integrated shutdown safety
 feature in the event of
- Hall effect sensor failure
- Mode free
- Higher Power Handling
 capability

Ordering Information



EXAMPLE:

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

miwv.com