

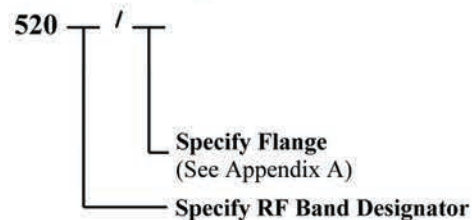
520 Series Uncalibrated Variable Attenuators **MI-WAVE** Millimeter Wave Products Inc.



Features

- Dial Driven
- Compact, Mechanically Stable Design
- Wide Range of Attenuation Values
- Smooth, Spring-Loaded Setting Control

Ordering Information



Description

Mi-Wave's 520 series uncalibrated variable attenuators are available in standard waveguide sizes from 8 to 220 GHz. The attenuating element in each unit provides variable attenuation, from 0 dB to 25 dB minimum. Precision-designed internal controls are accurately contoured to provide a low bilateral VSWR and minimum variation of attenuation with frequency.

Applications

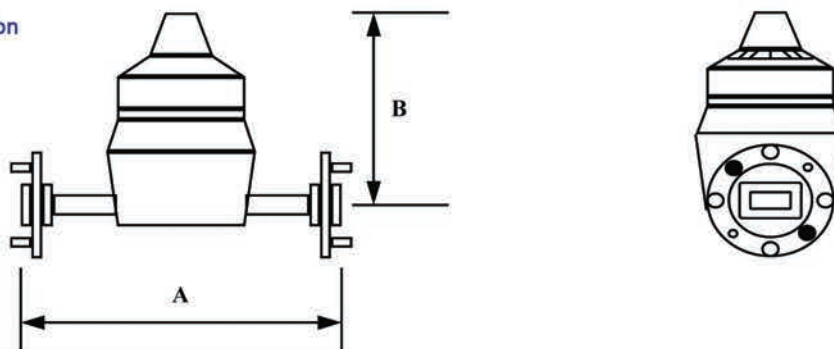
The 520 series uncalibrated variable attenuators are useful in applications that require a reliable level setting or isolating pad. They provide maximum accuracy in establishing initial power levels in substitution-method attenuation measurements. Designed to maintain reliable performance for accurate test measurements, the stable setting control of these devices maintains constant attenuation under all normal conditions of vibration and orientation.

Dimensional Specifications

Model No	A		B	
	in	mm	in	mm
520K	3.00	76.2	2.35	59.7
520A	2.75	69.9	2.16	54.9
520B	2.75	69.9	2.16	54.9
520U	2.75	69.9	2.16	54.9
520V	2.50	63.5	1.94	49.3
520E	2.50	63.5	1.94	49.3
520W	2.50	63.5	1.94	49.3
520F	2.00	50.8	1.94	49.3
520D	2.00	50.8	1.94	49.3
520G	2.00	50.8	1.94	49.3

Other bands available.
WR-90
WR-75
WR-62
WR-34

Custom High Power Versions Available



Technical Specifications (typical)

Model No	520K	520A	520B	520U	520V	520E	520W	520F	520D	520G
Frequency Band (GHz)	18.0-26.5	26.5-40	33-50	40-60	50-75	60-90	75-110	90-140	110-170	140-220
VSWR Max.	1.15	1.15	1.15	1.15	1.15	1.15	1.20	1.25	1.25	1.30
Attenuation Range (dB) Min.	0-30	0-30	0-30	0-30	0-30	0-25	0-25	0-23	0-20	0-20
Insertion Loss @ 0 Setting (dB)	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.7
Weight (oz)	8.0	6.0	6.0	6.0	3.0	3.0	3.0	2.5	2.5	2.5
Average Power (watts)	1.5	1.0	1.1	1.0	0.6	0.6	0.5	0.3	0.2	0.1