

## Variable Attenuators (Waveguide & Coaxial)

### FEATURES:

- ❖ 0.5-180GHz
- ❖ Characteristic Impedance: 50Ω
- ❖ Low Insertion Loss
- ❖ Good Impedance matching
- ❖ Economically Priced

### APPLICATIONS:

- ❖ Test Equipment
- ❖ Subsystems
- ❖ Prototypes



**CSA Series**

### DESCRIPTION:

Cernex CSA Series variable (level) setting attenuators can have variable IL that range from 0 to 25 dB with full waveguide operational bandwidth. The variable (level) setting attenuators are equipped with a micrometer, which enables rapid re-setting. With calibrated charts, the variable (level) setting attenuators can be used as direct reading attenuator for bench top test set ups. This variable setting attenuators are typically used in test set ups and prototype assemblies where certain attenuation are required.

### SPECIFICATIONS:

#### COAXIAL:

Model No.	Frequency Range (GHz)	Attenuation Range (dB)	VSWR (Max)	Power (W)	Size LXWXH (mm)	Connector Type
CSAU5042002TY	0.5-4.0	*	1.50	2	144.02X72.4X 19.7	N
CSA04182002TY	4.0-18.0	1.0-20	1.50	2	109.22X63.50 X17.53	SMA
CSA044020U5	4.0-40.0	0-20	1.50	0.5	-	K-F/M

\* ATTENUATION: 7dB@0.5GHz, 20dB@1-1.5GHz, >20dB@2-4GHz

OTHER FREQUENCY BANDS AND ATTENUATION VALUES ARE ALSO AVAILABLE.

#### WAVEGUIDE:

Waveguide Band	C	X	Ku	Kc	K	Kb	Ka
Frequency Range (GHz)	4.90 to 7.05	8.20 to 12.40	12.4 to 18	15.0 to 22.0	18 to 26.5	22.0 to 33.0	26.5 to 40.0
Waveguide Size	WR-159	WR-90	WR-62	WR-51	WR-42	WR-34	WR-28
Power Handling	2W	2W	2W	2W	1W	1W	1W
Level Setting Value (dB, Typical)	0 to 30						
VSWR (Typical)	1.15:1						

CONTACT FACTORY FOR OTHER ATTENUATION VALUES AND SPECIFICATIONS.

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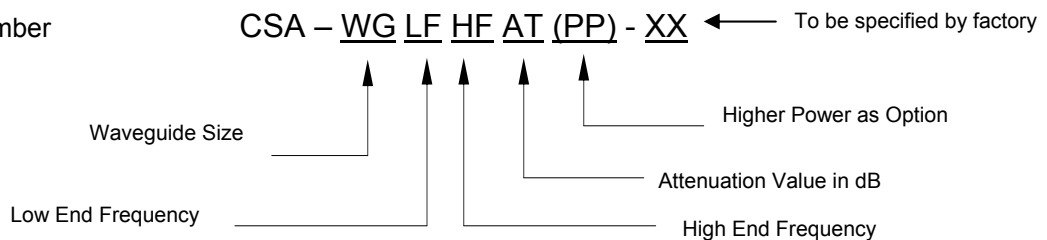
Waveguide Band	Q	U	V	E	W	F	D
Frequency Range (GHz)	33.0 to 50.0	40.0 to 60.0	50.0 to 75.0	60.0 to 90.0	75.0 to 110.0	90.0 to 140.0	110.0 to 170.0
Waveguide Size	WR-22	WR-19	WR-15	WR-12	WR-10	WR-8	WR-6
Power Handling	0.5W	0.5W	0.5W	0.5W	0.5W	0.5W	0.5W
Level Setting Value (dB, Typical)	0 to 30						
VSWR (Typical)	1.15:1						

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### HOW TO ORDER:

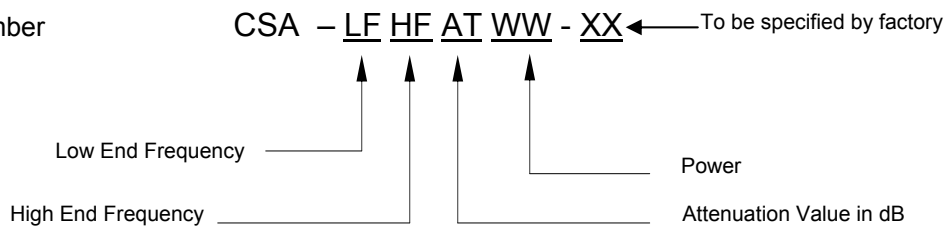
#### WAVEGUIDE:

Specify Model Number



#### COAXIAL:

Specify Model Number



**Example:** To order a full band WR-15 variable attenuator with 20 dB attenuation level, specify CSA-15507520 .

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE