

## 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
CSAU50420TY	0.5-4.0	0.5-20	1.50	2	130X190X22	N
CSA041820TY	4.0-18.0	1.0-20	1.50	2	130X190X22	N

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
Fixed Attenuation Value (dB, Typ.)	3, 6, 10, 20 and 30						
VSWR (Typical)	1.15:1						
Level Setting Value (dB, Typical)	0 to 30						
VSWR (Typical)	1.15:1						
Power Rating (Maximum)	-	-	-	-	0.6		0.6



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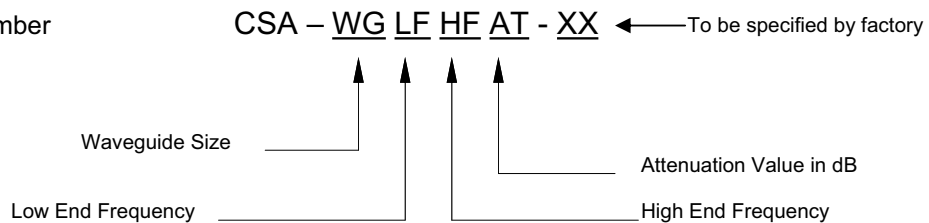
Waveguide Band	Q	U	V	E	W	F	D
Frequency Range (GHz)	33.0 to 50.0	40.0 to 60.0	50.0 to 75.0	60.0 to 90.0	75.0 to 110.0	90.0 to 140.0	140.0 to 180.0
Waveguide Size	WR-22	WR-19	WR-15	WR-12	WR-10	WR-8	WR-6
Fixed Attenuation Value (dB, Typ.)	3, 6, 10, 20 and 30						
VSWR (Typical)	1.15:1						
Level Setting Value (dB, Typical)	0 to 30						
VSWR (Typical)	1.15:1						
Power Rating (Maximum)	0.5	0.6	0.6	0.5	0.5	0.4	0.3

Contact factory for other attenuation values and specifications.

### HOW TO ORDER:

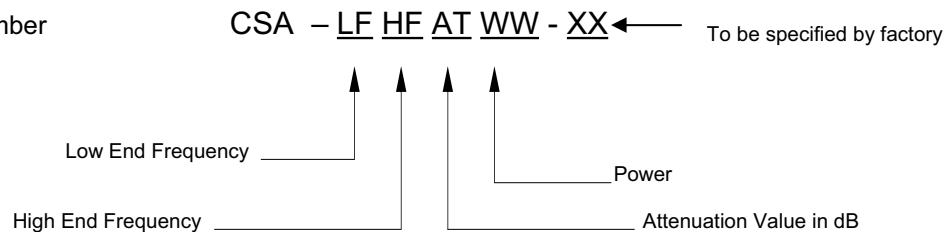
#### WAVEGUIDE:

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