

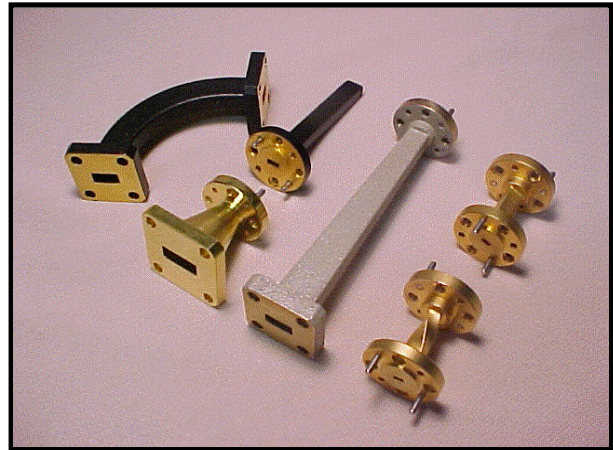
Waveguide Sections, Bends, Twist, Transitions and Loads

FEATURES:

- ❖ Rugged waveguide configuration
- ❖ Full band operation
- ❖ Low cost

APPLICATIONS:

- ❖ Test equipment
- ❖ Subsystems
- ❖ Prototypes



CSS, CWB, CTS, CWW & CWL Series

DESCRIPTION:

Cernex **CSS, CWB, CTS, CWW** and **CWL** Series offered various waveguide components line to cover frequency range of 18 to 110 GHz in seven waveguide bands. Other frequency bands are available per request.

Straight waveguide sections (**CSS**) offer the inter-connections between the waveguide ports and are available in 1" to 8" standard length in 1" increments as well as customer-specified lengths.

Waveguide bends (**CWB**) change the direction in the waveguide assembly and are available in H plane and E-plane version with bend angles of 30°, 45°, 60° and 90°.

Waveguide twists (**CTS**) allow changing the orientation of the waveguide port and are available with twisting angles of 45° or 90°.

The tapered waveguide transitions (**CWW**) offer a smooth transition between different waveguide sizes. While linear tapered transition lengths varied from 1.25" to 3", the cosine tapered unit has a very compact size. For example, the length of a WR-42 to WR-10 linear tapered transition is 3", while a cosine taper is 1".

The waveguide termination loads (**CWL**) are useful when a matched port termination is required. The standard termination load offers less than 1.05 VSWR and up to 2.0 watts power handling. Higher power handling versions are offered as custom-specified options.

WAVEGUIDE SPECIFICATIONS:

Waveguide Band	K	Ka	Q	U	V	E	W
Frequency Range (GHz)	18 to 26.5	26.5 to 40	33 to 50	40 to 60	50 to 75	60 to 90	75 to 110
Waveguide Size	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
Flange Pattern	UG595/U	UG599/U	UG383/ U	UG383/U	UG385/U	UG387/U	UG387/U

Note: Contact factory for other waveguide band needs.

