

Key Features

- Waveguide configuration
- Low insertion loss
- Low cost

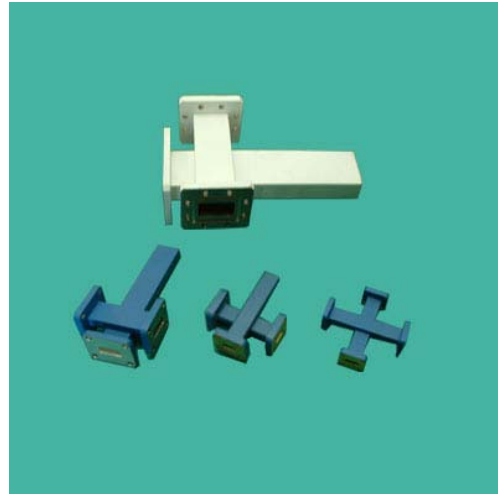
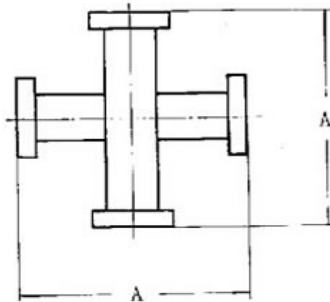
Primary Applications

- Power sampling or frequency monitoring
- Microwave sub-systems
- Bench testing set

General Description

Cross Directional Couplers are for signals coupling in waveguide system. There are two oblique cross holes in the common wall of the two crossed waveguides. The coupling port is the one closer to the first hole on the cross section from main transmitting path. Another end of the coupling waveguide should be terminated with a matching load. WCC series offered

standard coupling level of 23dB. Custom designs are offered to cover frequency from 1.7 to 110GHz, with the coupling level 15-30dB.

**Outline Drawing****Typical Specification**

Part No.	Frequency Range, GHz	Bandwidth $\Delta f/f$	Waveguide sizes	Flange Type	Coupling (dB)	Directivity, (dB)	VSWR	Dimensions (mm)
WCC090-FT	8.2~12.4	30%	WR-90	UG39/U	23	15	1.1:1	90.0
WCC075-FT	10.0~15.0	30%	WR-75	UBR120	23	15	1.1:1	90.0
WCC042-FT	17.6~26.9	30%	WR-42	UG595/U	23	15	1.1:1	80.0
WCC034-FT	22.0~33.0	30%	WR-34	UG1530/U	23	15	1.1:1	70.0
WCC028-FT	26.5~40.0	30%	WR-28	UG599/U	23	15	1.1:1	70.0
WCC022-FT	33.0~50.0	30%	WR-22	UG383/U	23	15	1.1:1	60.0
WCC019-FT	40.0~60.0	30%	WR-19	UG383/U	23	15	1.1:1	60.0
WCC015-FT	50.0~75.0	30%	WR-15	UG385/U	23	15	1.1:1	60.0
WCC012-FT	60.0~90.0	30%	WR-12	UG387/U	23	15	1.1:1	60.0
WCC010-FT	75.0~110.0	30%	WR-10	UG387/U	23	15	1.1:1	60.0