

Crossguide Couplers

FEATURES

- ❖ Rugged, low cost construction
- ❖ Good performance
- ❖ Low insertion loss
- ❖ 2-110 GHz

APPLICATIONS

- ❖ Test equipment
- ❖ Subsystems
- ❖ Power sampling



CCC Series

DESCRIPTION

CCC Series crossguide couplers are offered in seven waveguide bands between 2 and 110 GHz. The standard coupling level is 20 dB with moderate operational bandwidth and directivity. Couplers are typically used for power sampling or frequency monitoring with minimal signal loss in the main transmitting path, and these crossguide couplers have a similar system function while delivering a much shorter insertion length and lower insertion loss compared to their counterpart, multi-hole directional couplers. Because of their unique features, these crossguide couplers are ideal candidates for system integration.

SPECIFICATIONS

Model No	Waveguide Band	Frequency Range (GHz)	Waveguide Size	Bandwidth (typ)	Coupling Level (dB @Fo, typ)	Coupling Flatness (dB max)	Insertion Loss (dB max)	Directivity (min)
CCC08121515	X	8.2-12.4	WR-90	-	15	± 1.5	0.5	15
CCC08122015	X	8.2-12.4	WR-90	-	20	± 1.5	0.5	15
CCC08123015	X	8.2-12.4	WR-90	-	30	± 1.5	0.5	15
CCC10151515	Xs	10-15	WR-75	-	15	± 1.5	0.5	15
CCC10152015	Xs	10-15	WR-75	-	20	± 1.5	0.5	15
CCC10153015	Xs	10-15	WR-75	-	30	± 1.5	0.5	15
CCC12181515	Ku	12.4 -18	WR-62	-	15	± 1.5	0.5	15
CCC12182015	Ku	12.4 -18	WR-62	-	20	± 1.5	0.5	15
CCC12183015	Ku	12.4 -18	WR-62	-	30	± 1.5	0.5	15
CCC15221515	Kb	15 - 22	WR-51	-	15	± 1.5	0.5	15
CCC15222015	Kb	15 - 22	WR-51	-	20	± 1.5	0.5	15
CCC15223015	Kb	15 - 22	WR-51	-	30	± 1.5	0.5	15
CCC18261515	K	18 - 26.5	WR-42	-	15	± 1.5	0.5	15
CCC18262015	K	18 - 26.5	WR-42	-	20	± 1.5	0.5	15
CCC18263015	K	18 - 26.5	WR-42	6	30	± 1.5	0.5	15
CCC22331515	Kb	22 - 33	WR-34	7	15	± 1.5	0.5	15
CCC22332015	Kb	22 - 33	WR-34	7	20	± 1.5	0.5	15
CCC22333015	Kb	22 - 33	WR-34	7	30	± 1.5	0.5	15
CCC26401515	Ka	26.5-40	WR-28	8	15	± 1.5	0.5	15
CCC26402015	Ka	26.5-40	WR-28	8	20	± 1.5	0.5	15
CCC26403015	Ka	26.5-40	WR-28	8	30	± 1.5	0.5	15
CCC26404015	Ka	26.5-40	WR-28	8	40	± 1.5	0.5	15
CCC33501515	Q	33-50	WR-22	10	15	± 1.6	0.5	15
CCC33502015	Q	33-50	WR-22	10	20	± 1.6	0.5	15
CCC33503015	Q	33-50	WR-22	10	30	± 1.6	0.5	15

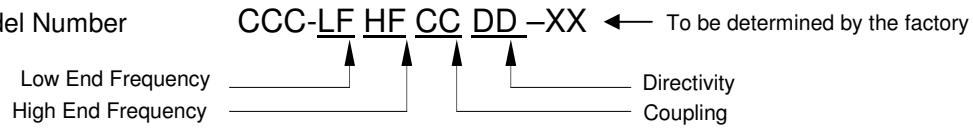


Model No	Waveguide Band	Frequency Range (GHz)	Waveguide Size	Bandwidth (typ)	Coupling Level (dB @Fo, typ)	Coupling Flatness (dB max)	Insertion Loss (dB max)	Directivity (min)
CCC40601515	U	40 - 60	WR-19	12	15	± 1.6	0.7	15
CCC40602015	U	40 - 60	WR-19	12	20	± 1.6	0.7	15
CCC40603015	U	40 - 60	WR-19	12	30	± 1.6	0.7	15
CCC50751515	V	50 - 75	WR-15	15	15	± 1.6	0.8	15
CCC50752015	V	50 - 75	WR-15	15	20	± 1.6	0.8	15
CCC50753015	V	50 - 75	WR-15	15	30	± 1.6	0.8	15
CCC60901515	E	60 - 90	WR-12	18	15	± 1.8	1	15
CCC751101515	W	75 - 110	WR-10	20	15	± 1.8	1	15
CCC901401515	G	90 - 140	WR-8	-	15	± 1.6	0.7	10

Contact factory for other frequency bands,

HOW TO ORDER

Specify Model Number



Example: To order a WR42 crossguide coupler with a frequency band of 18-26.5Ghz, 20 dB coupling level, a 15 dB minimum directivity, specify CCC-18262015-XX.