

Waveguide Power Dividers

FEATURES:

- ❖ Frequency coverage: 8 to 110GHz
- ❖ 2, 4, 8 ways
- ❖ Low Insertion loss and excellent port balance
- ❖ High isolation
- ❖ Narrow and broadband

APPLICATIONS:

- ❖ Test labs
- ❖ Instrumentations
- ❖ Sub-assemblies



DESCRIPTION:

CDPW Series

CDPW series waveguide power combiners are offered in seven waveguide bands to cover the frequency range of 8 to 110GHz. These power combiners are available in 2n way power combining configurations with a maximum 8 ways. Through a detailed design and fabrication process, these power combiners exhibit low insertion loss and high port isolation as well as well balanced in phase power combining in a broad frequency range. The waveguide power combiners are power dividers (splitters), which are widely used in test labs, instruments, radar and communication systems.

SPECIFICATIONS:

Waveguide Band	X	Xs	Ku	Kb	K
2-way					
Waveguide Size	WR-90	WR-75	WR-62	WR-51	WR-42
RF Frequency Range (GHz)	8.20 to 12.40	10.0 to 15.0	12.4 to 18.0	15.0 to 22.0	18.0 to 26.5
Insertion Loss (dB)	0.15	0.20	0.25	0.25	0.15
Isolation (dB)	20.0	20.0	20.0	20.0	20.0
Amplitude Balance (dB)	+/-0.10	+/-0.15	+/-0.20	+/-0.20	+/-0.10
VSWR	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1



Waveguide Power Dividers

Waveguide Band	Kc	Ka	Q	U	V	E	W
2-way							
Waveguide Size	WR-34	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
RF Frequency Range (GHz)	22.0 to 33.0	26.5 to 40.0	33.0 to 50.0	40.0 to 60.0	50.0 to 75.0	60.0 to 90.0	75.0 to 110
Insertion Loss (dB)	0.15	0.20	0.25	0.25	0.35	0.40	0.50
Isolation (dB)	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Amplitude Balance (dB)	+/-0.10	+/-0.15	+/-0.20	+/-0.20	+/-0.20	+/-0.20	+/-0.20
VSWR	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1

Waveguide Band	X	Xs	Ku	Kb	K
4-way					
Waveguide Size	WR-90	WR-75	WR-62	WR-51	WR-42
RF Frequency Range (GHz)	8.20 to 12.40	10.0 to 15.0	12.4 to 18.0	15.0 to 22.0	18 to 26.5
Insertion Loss (dB)	0.15	0.20	0.25	0.25	0.20
Isolation (dB)	20.0	20.0	20.0	20.0	20.0
Amplitude Balance (dB)	+/-0.10	+/-0.15	+/-0.20	+/-0.20	+/-0.15
VSWR	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1

Waveguide Band	Kc	Ka	Q	U	V	E	W
4-way							
Waveguide Size	WR-34	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10
RF Frequency Range (GHz)	22.0 to 33.0	26.5 to 40.0	33.0 to 50.0	40.0 to 60.0	50.0 to 75.0	60.0 to 90.0	75.0 to 110
Insertion Loss (dB)	0.20	0.25	0.30	0.30	0.45	0.50	0.65
Isolation (dB)	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Amplitude Balance (dB)	+/-0.15	+/-0.20	+/-0.25	+/-0.25	+/-0.25	+/-0.30	+/-0.30
VSWR	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1

CONTACT THE FACTORY FOR SPECIAL REQUIREMENTS.

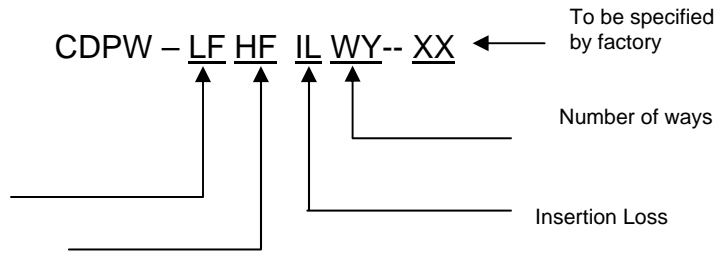
Waveguide Power Dividers

HOW TO ORDER:

Specify Model Number

Low End
Frequency

High End
Frequency



Example: To order a 4 Way, 18 to 26.5 GHz Waveguide Power Divider with 0.20 insertion loss , specify, CDPW18260204-XX.

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