



Waveguide Directional Couplers

MDI's unique Waveguide Directional Couplers are among the smallest and lightest devices of this type available in the industry. They incorporate minimum size and weight features, and in addition, the coaxial type secondary arms eliminate the need for transitions or adapters.

The secondary or coupled outputs are available in any conventional coaxial connector or we will design a custom connector to meet your needs.

These couplers offer the up most in versatility with coupling values ranging from 10 to 70 dB, in any increment. The mainline is equipped with choke or cover flanges as required. Water cooling for extremely high power applications can be provided, and mainlines may be pressurized upon request. All couplers are available with any number of coupled ports in either direction.

SPECIFICATIONS

MODELS	Frequency (GHz)	Coupling (dB)	Directivity (dB)	VSWR (mainline)
WR430	1.70 - 2.60	20 - 70	20	1.10:1
WR340	2.10 - 3.00	10 - 70	20	1.10:1
WR284	2.60 - 3.95	10 - 70	20	1.10:1
WR229	3.30 - 4.90	10 - 70	20	1.10:1
WR187	3.95 - 5.85	10 - 70	20	1.10:1
WR159	4.90 - 7.05	10 - 70	20	1.10:1
WR137	5.85 - 8.20	10 - 70	20	1.10:1
WR112	7.05 - 10.00	10 - 70	20	1.10:1
WR102	7.00 - 11.0	10 - 70	20	1.10:1
WR90	8.20 - 12.4	10 - 70	20	1.10:1
WR75	10.0 - 15.0	10 - 70	20	1.10:1
WR62	12.4 - 18.0	10 - 70	20	1.10:1
WR51	15.0 - 22.0	10 - 70	20	1.10:1
WR42	18.0 - 26.5	10 - 70	20	1.10:1
WR34	22.0 - 33.0	10 - 70	20	1.10:1
WR28	26.5 - 40.0	10 - 70	20	1.10:1
WR22	33.0 - 50.0	10 - 70	20	1.10:1
WR19	40.0 - 60.0	10 - 70	20	1.10:1

Most designs easily cover 25% of the bandwidth. Consult factory for full bandwidth models, cross guide, or broadwall couplers.