



Description

Mi-Wave's 567 Series Dual-directional Couplers are broadband, broadwall components with a multi-hole directivity. The 567 Series Couplers are available in 3, 6, 10, 20, 30, 40 and 50 dB coupling values for standard waveguide bands from 18 to 170.0 GHz.

- High Directivity
- Accurate Coupling
- Full Waveguide Bandwidth

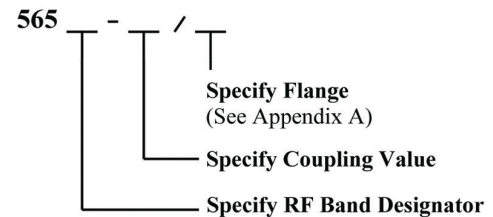
Applications

The 567 Series Dual-directional couplers are used in applications that require precise sampling of both incident and reflected energy. The 3 dB couplers are especially useful in balanced mixer work where broadband power division of RF and LO signals is required to supply both sides of a balanced mixer unit. The 3 dB bi-directional couplers can provide full bandwidth power division.

Dimensional Specifications

Model No.	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
567A/10, 20, 30, 40	9.62	244.0	1.75	44.5	1.38	35.1	.16	4.06
567A/3, 6 dB	12.0	304.8	1.75	44.5	1.38	35.1	.16	4.06
567B/10, 30, 30, 40	8.40	213.0	1.64	41.7	1.30	33.0	.13	3.30
567B/3, 6 dB	10.25	259.1	1.64	41.7	1.30	33.0	.13	3.30
567U/10, 20, 30, 40	7.38	187.4	1.38	35.1	1.12	28.5	.11	2.80
567U/3, 6 dB	9.12	231.6	1.38	35.1	1.12	28.5	.11	2.80
567V/10, 20, 30, 40	6.25	159.0	1.13	8.6	0.88	22.4	.08	2.03
567V/3, 6 dB	7.25	184.1	1.13	28.7	0.88	22.4	.08	2.03
567E/10, 20, 30, 40	5.50	140.0	1.13	28.5	0.88	22.4	.07	1.78
567E/3, 6 dB	6.62	168.1	1.13	28.7	0.88	22.4	.07	1.78
567W/10, 20, 30, 40	4.50	114.0	1.00	25.4	0.81	20.6	.06	1.52
567W/3, 6 dB	5.50	139.7	1.00	25.4	0.81	20.6	.06	1.52

Ordering Information



OTHER BANDS AVAILABLE:

- WR-90
- WR-75
- WR-62
- WR-51
- WR-34

Technical Specifications (typical)

Model No.	559K	559A	559B	559U	559V	559E	559W
Frequency Band (GHz)	18.0–26.5	26.5–40.0	33.0–50.0	40.0–60.0	50.0–75.0	60.0–90.0	75.0–110.0
Coupling (dB)	3, 6, 10, 20, 30, 40						
Coupling Variation (dB)	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
Coupling Accuracy (dB) **	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
Directivity (dB) Typical	40	40	40	40	40	40	40
Main Line VSWR	1.05	1.05	1.05	1.10	1.10	1.10	1.10
Auxiliary Line VSWR	1.12	1.12	1.12	1.15	1.15	1.15	1.17

** at center frequency

*Coupling fluctuates +/- 1dB or +/- 5% whichever is greater