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MI-WAVE®
Millimeter Wave Products Inc.

559 H-Plane



Description

Each of Mi-Wave's 559 Series Broadband Directional Couplers are broadwall multi-hole energy-Coupling devices. The 559 Series couplers are designed in 7 Couplings of 3, 6, 10, 20, 30, 40 and 50 dB are offered to complement specific test set requirements. Other custom configurations are available upon request.

- *Broadband*
- *Low VSWR*
- *High Directivity (Typ)*
- *Rugged Construction*
- *High Coupling Accuracy*
- *Calibrated Coupling values*
- *Minimum Coupling Variation with Frequency*

Applications

The 559 Series Directional Couplers provide an efficient and convenient means for sampling a finite quantity of power flowing in a transmission line or for injecting a desired signal into the line.

Model Number	Frequency (GHz)	Coupling Value (X)	Directivity (Typ)	Insertion Loss (Typ)	VSWR (Typ)	RF Ports
559K-X/595	18-26.5	3, 6, 10, 20, 30, 40, 50 dB	40 dB	1 dB	1.05:1	WR-42 Waveguide, UG-595 Flange
559A-X/599	26.5-40	3, 6, 10, 20, 30, 40, 50 dB	40 dB	1 dB	1.05:1	WR-28 Waveguide, UG-599 Flange
559B-X/383	33-50	3, 6, 10, 20, 30, 40, 50 dB	40 dB	1 dB	1.10:1	WR-22 Waveguide, UG-383 Flange
559U-X/383	40-60	3, 6, 10, 20, 30, 40, 50 dB	40 dB	1 dB	1.05:1	WR-19 Waveguide, UG-383 Flange
559V-X/385	50-75	3, 6, 10, 20, 30, 40, 50 dB	40 dB	1 dB	1.10:1	WR-15 Waveguide, UG-385 Flange
559E-X/387	60-90	3, 6, 10, 20, 30, 40, 50 dB	40 dB	1 dB	1.10:1	WR-12 Waveguide, UG-387 Flange
559W-X/387	75-110	3, 6, 10, 20, 30, 40, 50 dB	40 dB	1 dB	1.10:1	WR-10 Waveguide, UG-387 Flange

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