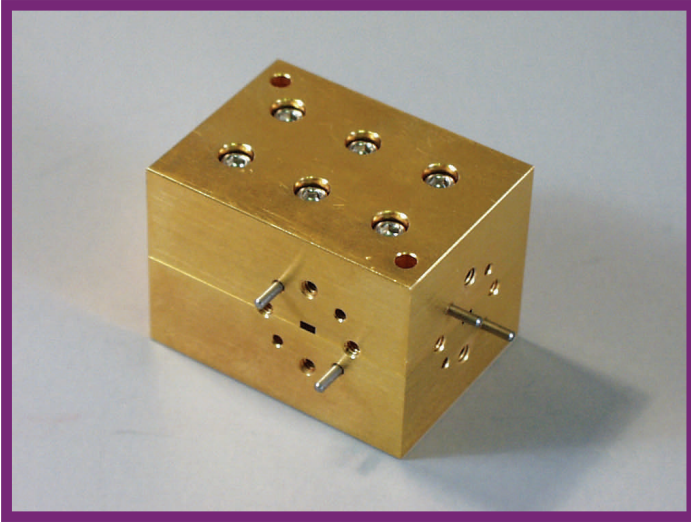


565 Series Cross Guide Directional Couplers



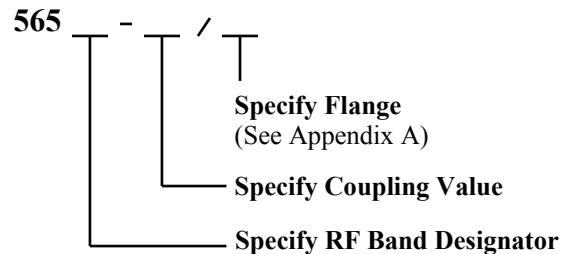
Features

- Low VSWR
- High Isolation
- High Directivity
- Rugged Construction
- Broadband Operation

Description 565 Series Couplers

Mi-Wave's 565 series cross guide couplers are similar in construction to the 564 series cross guide couplers. The units consist of two waveguides at right angles to each other, joined by small coupling slots whose size, location, and orientation determine the coupling and directivity of the unit. The 565 series couplers are unidirectional because one arm is internally terminated with a matched load.

Ordering Information



Applications

The 565 series cross guide directional couplers provide an efficient means for sampling power or injecting a signal into a waveguide transmission line.

Mi-Wave

Millimeter Wave Products Inc.

www.miwv.com

2200 Tall Pines Drive, Suite 100

Largo, FL 33771

Tel. (727) 536-0033 Fax. (727) 536-0012

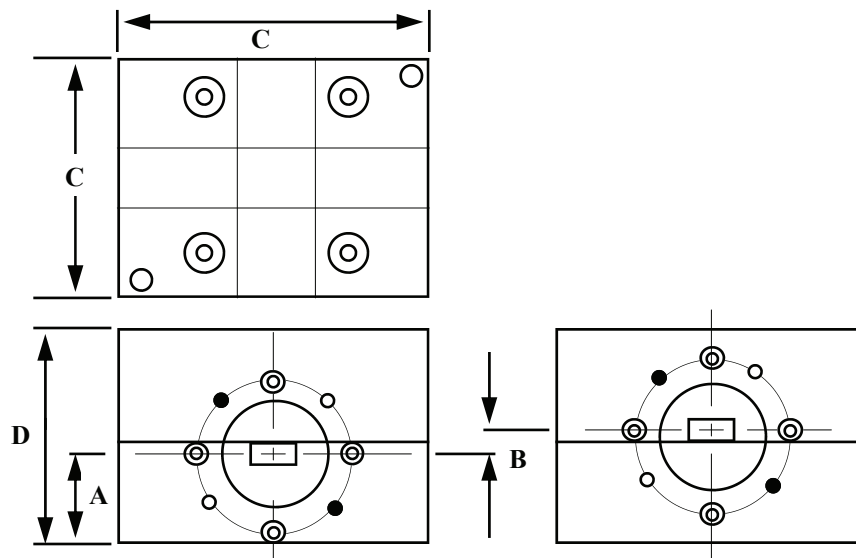
E: sales@miwv.com

564 Series Cross Guide Directional Couplers

Technical Specifications

Model Number	564K	564A	564B	564U	564V	564E	564W	564F
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	90.0-140.0
Standard Coupling ^{1,2} Values (dB) Nom.	16, 20, 30, 40, 50							
Directivity (dB) Typical	15	15	15	15	10	10	10	10
VSWR Max.	1.15	1.15	1.15	1.15	1.20	1.20	1.20	1.20
Weight (oz)	3.0	3.0	3.0	3.0	9.0	8.0	8.0	7.0

1. Any coupling values are available upon request.
2. Nominal ± 2.0 dB coupling variation over the waveguide band when set for coupling value at the band center.



Dimensional Specifications

Model Number	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
564K	.568	14.4	0.18	4.6	1.62	41.1	1.31	33.3
564A	.580	14.7	0.15	3.8	1.62	41.1	1.31	33.3
564B	.594	15.1	0.12	3.0	1.62	41.1	1.31	33.3
564U	.603	15.3	0.10	2.5	1.62	41.1	1.31	33.3
564V	.588	14.9	0.08	2.01	1.25	31.8	1.25	31.8
564E	.595	15.1	0.07	1.8	1.25	31.8	1.25	31.8
564W	.600	15.2	0.05	1.3	1.25	31.8	1.25	31.8
564F	.600	15.2	0.05	1.3	1.25	31.8	1.25	31.8

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