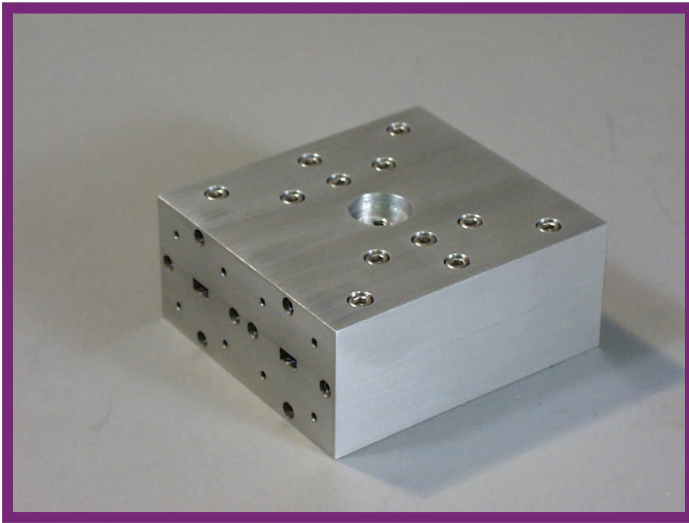


605 Series

3dB Short Slot Hybrids



Features

- Small
- Compact
- Negligible Coupling Variation

Description 605 Series Short Slot Hybrids

Mi-Wave's 605 series short slot hybrid is a narrow wall 3 dB coupler, available in standard wave-guide sizes from 18.0 to 110.0 GHz. This compact, four-port device is inherently matched and well-suited for balanced mixers and power splitting circuits. There is a 90 degree phase difference between the output signals, while the fourth port is isolated from the input.

Access to the input and output ports of these hybrids is achieved with a special dual-waveguide, single-flange arrangement.

Applications

The 605 series short slot hybrids are compact 3 dB couplers that can be used in waveguide bridge circuits, balanced mixers, phase shifters, and power splitters where space is limited.

Ordering Information

605
└── Specify RF Band Designator

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

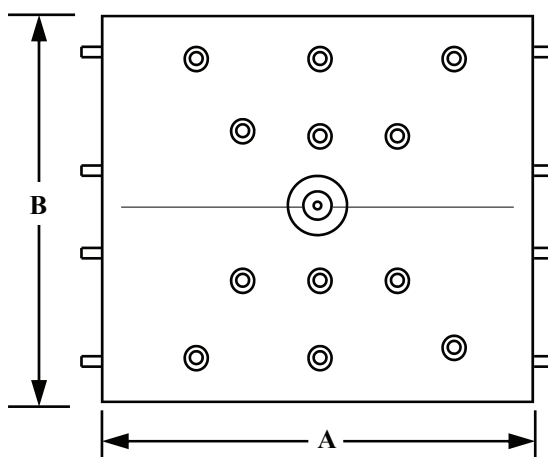
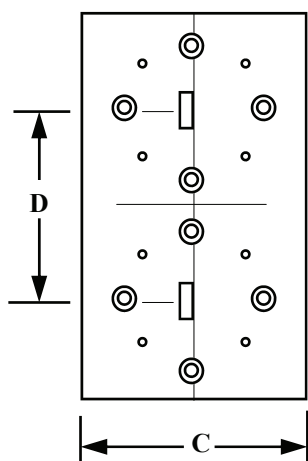
E: sales@miwv.com

605 Series

3dB Short Slot Hybrids

Technical Specifications

Model Number	605Ku	605K	605A	605B	605U	605V	605E	605W
Coupling (dB)	3	3	3	3	3	3	3	3
VSWR Max.	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Isolation (dB) Min.	20	20	20	20	20	20	20	18
Bandwidth (%)	6	6	6	6	6	6	6	6



Dimensional Specifications

Model Number	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
605K	3.75	95.3	2.47	62.7	1.12	28.5	1.38	35.1
605A	3.50	88.9	2.47	62.7	1.12	28.5	1.38	35.1
605B	2.60	66.0	2.37	60.2	1.14	29.0	1.18	30.2
605U	2.60	66.0	2.37	60.2	1.14	29.0	1.18	30.2
605V	1.75	44.5	1.75	44.5	1.0	25.4	0.90	22.86
605E	1.75	44.5	1.75	44.5	1.0	25.4	0.90	22.86
605W	1.75	44.5	1.75	44.5	1.0	25.4	0.90	22.86

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