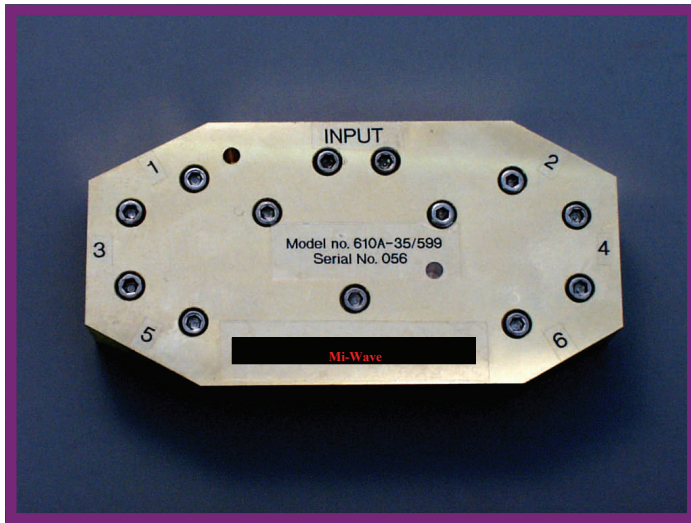


# 610 Series

# Triple Hybrid Rings



## Features

- Low VSWR
- High Isolation
- Minimum Size
- High Reliability
- Equal Power Split
- Low Insertion Loss
- Rugged Construction

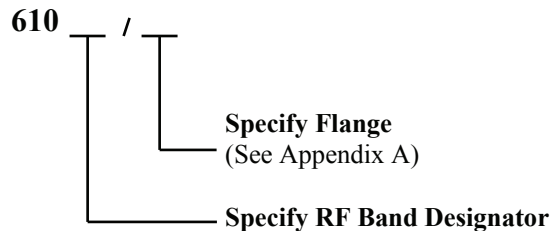
## Description 610 Series Triple Hybrid Rings

**Mi-Wave's** 610 series triple hybrid rings consist of three single hybrid rings integrated into one compact component. This device provides four 6 dB outputs for use in dual balanced mixers and power divider/combiner circuits.

## Applications

The 610 series hybrid rings are used in balanced mixers and power divider/combiner circuits where precise power splitting, high isolation, and accurate phase inversion are necessary.

## Ordering Information



## Port Configurations

<u>Series 610</u>		
Input	Output	Phase Relation
"input"	1,2	in-phase
	5,6	in-phase
	3,4	isolated

**Please Note:** Outputs 1, 2 are 180 degrees out of phase with outputs 5, 6.

# Mi-Wave

Millimeter Wave Products Inc.

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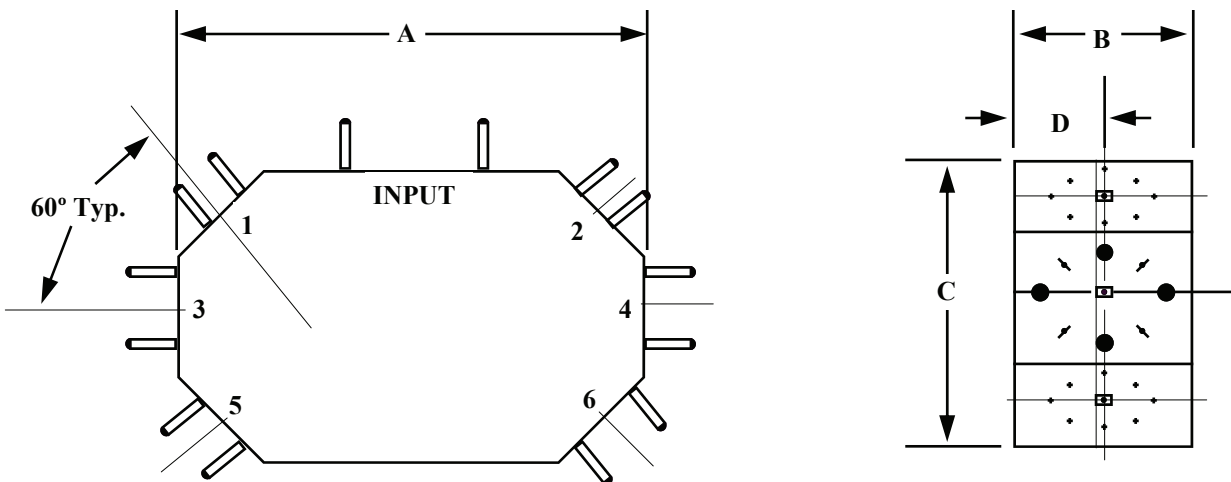
E: [sales@miwv.com](mailto:sales@miwv.com)

# 610 Series

# Triple Hybrid Rings

## Technical Specifications

Model Number	610K	610A	610B	610U	610V	610E	610W	610F	610D	610G
Isolation (dB) Max.	20	20	20	20	20	20	20	20	20	20
Insertion Loss (dB) Max.	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.8	0.8
Power Imbalance Max. (dB)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
VSWR Max.	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.30
Bandwidth (%)	5	5	5	5	5	5	5	5	5	4



## Dimensional Specifications

Model Number	A		B		C		D	
	in	mm	in	mm	in	mm	in	mm
610K	Consult Factory							
610A	4.53	115.0	0.76	19.3	2.30	58.4	0.38	9.65
610B	4.98	126.0	1.12	28.6	2.59	65.9	0.56	14.22
610U	4.98	126.0	1.12	28.6	2.59	65.9	0.56	14.22
610V	3.48	88.4	0.76	19.3	1.91	48.5	0.38	9.65
610E	3.48	88.4	0.76	19.3	1.91	48.5	0.38	9.65
610W	3.48	88.4	0.76	19.3	1.91	48.5	0.38	9.65
610F, D, G	On Request							

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