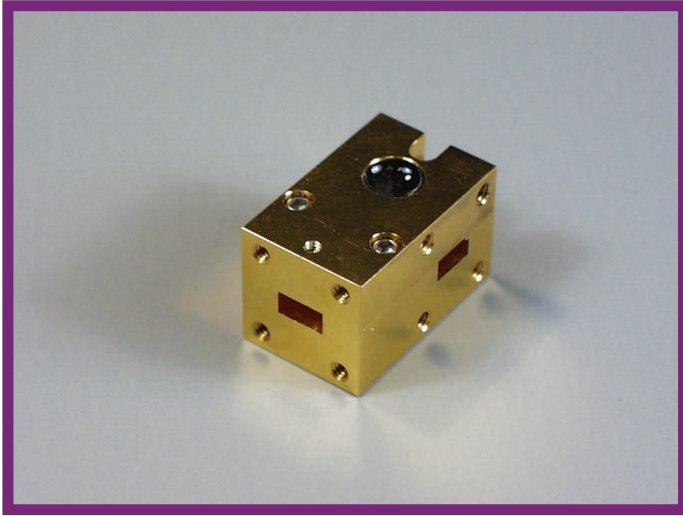


173 Series

Y-Junction Circulators



Features

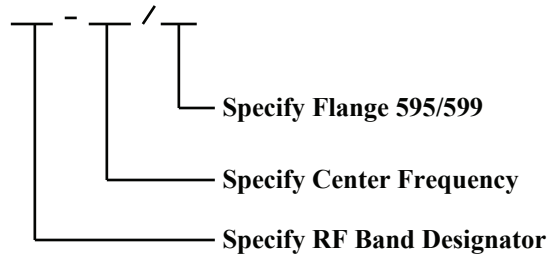
- Low Loss
- Low VSWR
- High Isolation
- Broad Bandwidth
- Compact & Rugged
- Optimal Temperature Response

Description 173 Series Circulators

Mi-Wave's 173 series is an H-plane, three port Y-junction ferrite device. Reflected energy is circulated to isolate the input. All external mating surfaces are machined to extreme flatness to provide connection to standard waveguide flanges for minimum discontinuity. The 173 series circulators are available in standard waveguide sizes from 12.4 to 50 GHz, using square UG-419, UG-595 and 599 style flanges only.

Ordering Information

173



Applications

The 173 series Y-junction circulators are useful in test setup and operational systems.

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

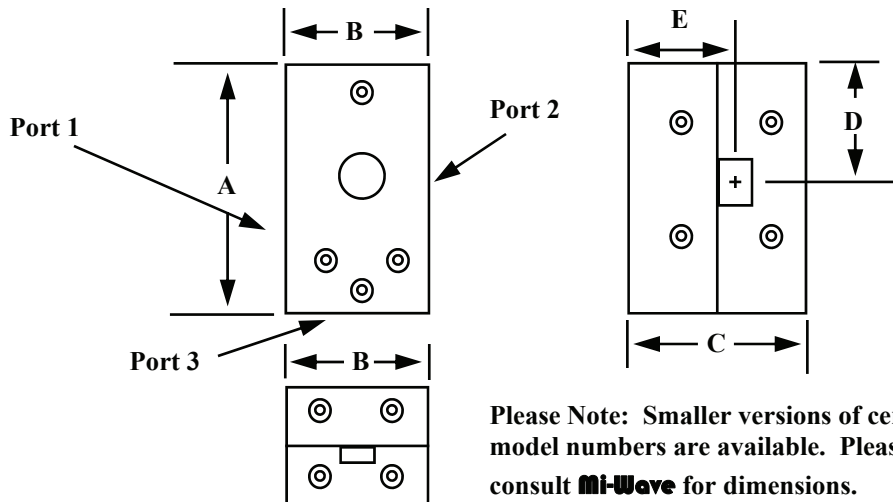
E: sales@miwv.com

173 Series

Y-Junction Circulators

Technical Specifications

Model Number	173K	173A	173B
Frequency Band (GHz)	18.0-26.5	26.5-40.0	33.0-50.0
Bandwidth ¹	1.8GHz	1.5GHz	1.3GHz
Isolation ² (dB)	18.0	18.0	18.0
Insertion Loss (dB)	0.3	0.4	0.5
VSWR ² Max.	1.30	1.30	1.30
Temperature Range	-15° C to +65° C		
Peak Power (kW)	1.0	1.0	1.0
Average Power (Watts)	30	30	25
Weight (oz)	4.0	4.0	4.0
Flange Type	UG-595/U	UG-599/U	UG-599/U



Dimensional Specifications

Model No.	A		B		C		D		E	
	in	mm	in	mm	in	mm	in	mm	in	mm
173K	1.50	38.1	.88	22.4	1.25	31.8	.63	16.0	.63	16.0
173A	1.20	30.5	.75	19.1	19.1	19.1	.38	19.7	.38	19.7
173B	1.20	30.5	.75	19.1	19.1	19.1	.38	19.7	.38	19.7

Mi-Wave

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