

4-Port Waveguide Junction Circulators

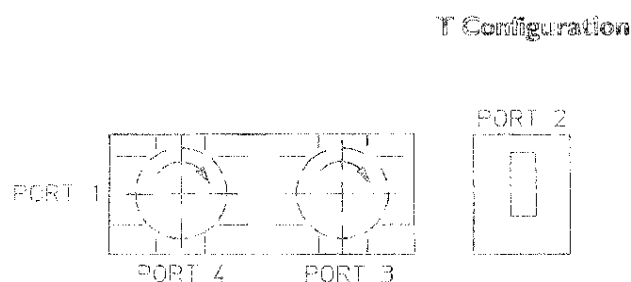
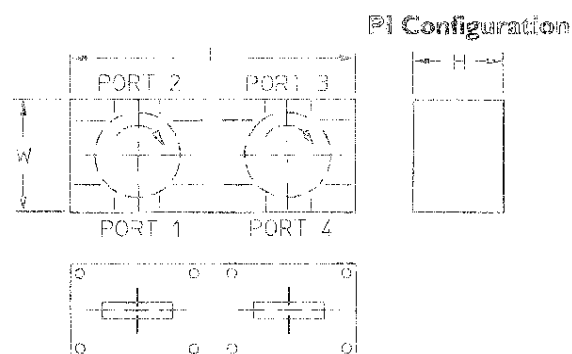
V3.00

Description

These dual junction units are available in two configurations. Add the appropriate configuration letter at the end of the part number. Loads may be added to port 4 for a duplexer function or to ports 3 and 4 for a high ratio isolator application. Contact the factory for part numbers and specifications.

The 4-port waveguide junction circulators shown represent only a sampling of M/A-COM's product capability. Consult the factory for custom options.

Mechanical Outline



Specifications

Waveguide	Frequency (GHz)	Isolation (dB) Min./Max.	Insertion Loss (dB) Min./Max.	VSWR	Max. Oper. Power		Dimensions Inches (mm)			Circulator Model No.*
					Peak kW	Avg. W	L	W	H	
WR-284	2.8-3.1	20/35	.3/.5	1.20	800	600	12.00(305.0)	5.00(122.5)	3.00(77.0)	8M590-101
WR-229	3.4-3.8	30/50	.2/.4	1.05	1	50	10.00(254.0)	5.00(122.5)	2.00(51.0)	8M550-101
WR-187	3.9-5.0	20/40	.3/.6	1.20	10	20	9.0(228.6)	4.25(108.0)	3.00(76.2)	8M204
WR-187	5.0-5.9	20/40	.3/.6	1.20	10	20	9.0(228.6)	4.25(108.0)	3.00(76.2)	8M205
WR-137	5.9-6.5	26/40	.3/.6	1.10	10	10	7.00(177.8)	3.25(82.6)	2.32(58.8)	8M207
WR-137	6.5-7.1	26/40	.3/.6	1.10	10	10	7.00(177.8)	3.25(82.6)	2.32(58.8)	8M208

Specifications Subject to Change Without Notice.

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Specifications continued

Waveguide	Frequency (GHz)	Isolation (dB) Min./Max.	Insertion Loss (dB) Min./Max.	VSWR	Max. Oper. Power		Dimensions Inches (mm)			Circulator Model No.*				
					Peak kW	Avg. W	L				W		H	
WR-112	7.0-8.4	20/40	.3/6	1.20	10	10	5.00(127.0)	2.25(57.2)	2.00(50.8)	8M210				
WR-112	7.1-8.6	26/40	.2/4	1.15	10	50	6.50(165.1)	3.00(76.2)	1.40(35.6)	8M551				
WR-90	8.2-10.0	26/40	.4/8	1.10	10	100	4.62(117.3)	2.25(57.2)	2.00(50.8)	8M212				
WR-90	8.5-9.6	20/40	.3/6	1.20	130	200	4.04(102.6)	1.63(41.4)	1.63(44.1)	8M623				
WR-90	10.0-12.4	26/40	.4/8	1.10	10	100	4.62(117.3)	2.25(57.2)	1.95(49.5)	8M213				
WR-75	10.7-11.7	26/40	.3/6	1.10	10	10	4.00(101.6)	1.75(44.5)	1.50(38.1)	8M214				
WR-75	12.2-12.7	26/40	.3/6	1.10	10	10	4.00(101.6)	1.75(44.5)	1.50(38.1)	8M215				
WR-75	12.2-13.2	26/40	.3/6	1.10	10	20	4.13(105.0)	16.5(42.0)	1.61(41.0)	8M311				
WR-62	12.4-18.0	20/35	.3/6	1.20	10	10	3.00(76.2)	1.50(38.1)	1.44(36.6)	8M220				
WR-62	13.0-15.0	20/40	.3/6	1.15	10	10	3.00(76.2)	1.50(38.1)	1.44(36.6)	8M216				
WR-62	14.0-16.0	20/40	.3/6	1.15	10	10	3.00(76.2)	1.50(38.1)	1.44(36.6)	8M217				
WR-62	15.0-17.0	20/40	.3/6	1.15	10	10	3.00(76.2)	1.50(38.1)	1.44(36.6)	8M218				
WR-62	16.0-18.0	20/40	.3/6	1.15	10	10	3.00(76.2)	1.50(38.1)	1.44(36.6)	8M219				
WR-42	18.0-22.5	20/35	.3/6	1.25	.5	5	2.50(63.5)	1.25(38.1)	1.00(25.4)	8M679-101				
WR-42	23.0-25.0	20/35	.25/.5	1.20	.5	5	2.50(63.5)	1.25(38.1)	1.00(25.4)	8M679-102				
WR-42	21.0-26.5	20/35	.3/6	1.25	.5	5	2.50(63.5)	1.25(38.1)	1.00(25.4)	8M679-103				

*Available in either "T" or "PI" configuration. Designate configuration by adding appropriate letter suffix to model number.
Mechanical sizes shown are for the "PI" configuration.

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