

Rectangular Waveguide

Magic Tee

Description

We are proud to provide a wide range of rectangular waveguide magic tee covering bands from 1 GHz to 110 GHz. Our magic tees are featured with full band operation, deep matching with high isolation on both the co-linear ports and the E- & H- ports, stable transmission, and high-power handling capability.

Applications

- High power combiner assembly
- Radar systems
- Satellite applications

Electrical Specifications

The frequency band as well as the matching level depend on the standard as illustrated in the table attached.

- Partial band magic tees are available upon request with better electrical characteristics and customized solutions.
- Pressurized and TVAC units are available based on the client requirement.

Mechanical Specifications

Material: Aluminum 6061 / Copper / Brass
Finish: Chromate/Plated
Paint: As per request



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Electrical Specifications

Model Number	Waveguide Size	Frequency	VSWR	E-H Isolation (dB)	Co-Linear Isolation (dB)	Dimension A	Dimension B
SMC-176650	WR-650	1.12-1.70 GHz	1.20:1	30	20	18	9
SMC-176510	WR-510	1.45-2.20 GHz	1.20:1	30	20	16	8
SMC-176430	WR-430	1.70-2.60 GHz	1.20:1	30	20	14	7
SMC-176340	WR-340	2.20-3.30 GHz	1.20:1	30	20	12	6
SMC-176284	WR-284	2.60-3.95 GHz	1.20:1	30	20	10	5
SMC-176229	WR-229	3.30-4.90 GHz	1.20:1	30	20	8	4
SMC-176187	WR-187	3.95-5.85 GHz	1.20:1	30	20	6	3
SMC-176159	WR-159	4.90-7.05 GHz	1.20:1	30	20	5.5	2.75
SMC-176137	WR-137	5.85-8.20 GHz	1.20:1	30	20	5	2.5
SMC-176112	WR-112	7.05-10.0 GHz	1.20:1	30	20	3.5	1.75
SMC-176102	WR-102	7.00-11.0 GHz	1.20:1	30	20	3.5	1.5
SMC-176090	WR-90	8.20-12.4 GHz	1.20:1	30	20	3	1.5
SMC-176075	WR-75	10.0-15.0 GHz	1.20:1	30	20	2.5	1.25
SMC-176062	WR-62	12.4-18.0 GHz	1.20:1	30	20	2.5	1.25
SMC-176051	WR-51	15.0-22.0 GHz	1.20:1	30	20	2.5	1.25
SMC-176042	WR-42	18.0-26.5 GHz	1.20:1	30	20	2	1
SMC-176034	WR-34	22.0-33.0 GHz	1.25:1	30	20	2	1
SMC-176028	WR-28	26.5-40.0 GHz	1.30:1	30	20	1.5	0.75
SMC-176022	WR-22	33.0-50.0 GHz	1.40:1	30	17	1.5	0.75
SMC-176019	WR-19	40.0-60.0 GHz	1.40:1	30	17	1	0.75
SMC-176015	WR-15	50.0-75.0 GHz	Upon request	Upon request	Upon request	0.75	0.5
SMC-176012	WR-12	60.0-90.0 GHz	Upon request	Upon request	Upon request	0.75	0.5
SMC-176010	WR-10	75.0-110 GHz	Upon request	Upon request	Upon request	0.5	0.25

