

FMWMT1002 DATA SHEET

WR-15 Magic Tee Waveguide Using UG-385/U Round Cover Flange and Operating from 50 GHz to 75 GHz

Fairview's FMWMT1002 is a magic, or hybrid tee that operates from 50 GHz to 75 GHz, V band. It is a 4 port device that is internally tuned to optimize matching, balance, and isolation. Magic tees have an H-plane (sum) port, an E-plane (difference) port, and two collinear ports. A signal applied to the H port will be equally divided between the two collinear ports. A signal applied to the E port will be divided between the two collinear ports but with a 180 degree phase difference. Similarly, when two in-phase signals of equal amplitude are applied to the collinear ports, these will be added together at the H-plane (sum) port and subtracted from one another at the E-plane (difference) port.



Description	Min	Тур	Max	Units
Frequency Range	50		75	GHz
Insertion Loss			1	dB
Isolation, E-H (Δ - Σ) Port	s 25			dB
Isolation, Collinear Ports	15			dB

Mechanical Specifications

Size

Weight 0.124 lbs [56.25 g]

Waveguide Size WR-15
Flange Type Round Cover
Flange Designation UG-385/U
Body Material and Plating Aluminum, Gold
Body Plating Specification ASTMB488

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- 50 to 75 GHz Frequency Range
- E to H Port Isolation 25 dB Min
- Collinear Port Isolation 15 dB Min
- 1 dB Insertion loss
- V Band

Applications:

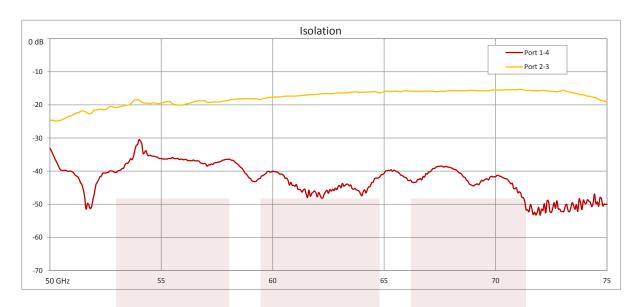
- Test and Measurement
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WR-15 Magic Tee Waveguide Using UG-385/U Round Cover Flange and Operating from 50 GHz to 75 GHz from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

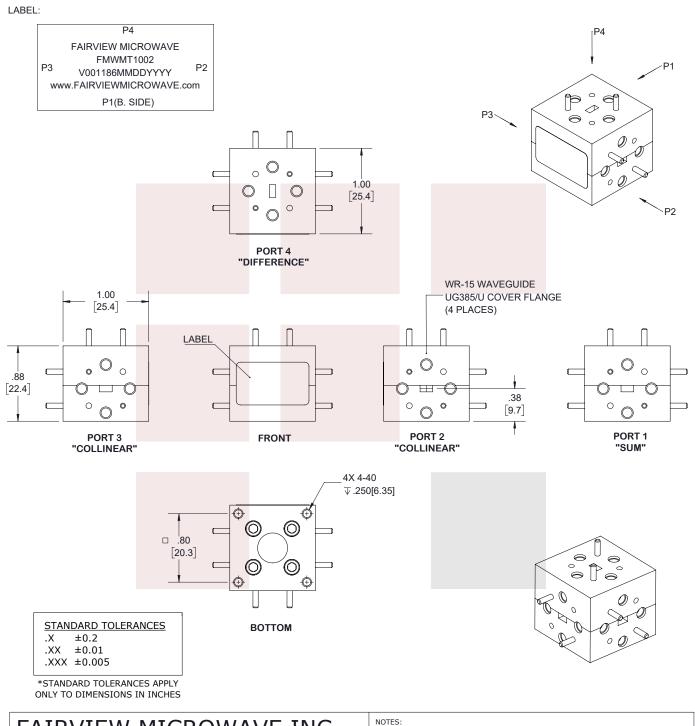
For additional information on this product, please click the following link: WR-15 Magic Tee Waveguide Using UG-385/U Round Cover Flange and Operating from 50 GHz to 75 GHz FMWMT1002

URL: https://www.fairviewmicrowave.com/wr-15-magic-tee-waveguide-ug385-round-75-ghz-fmwmt1002-p.aspx

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WR-15 Magic Tee Waveguide Using UG-385/U Round	DWG NO FMWMT1002			CAGE CODE 3FKR5				
Cover Flange and Operating from 50 GHz to 75 GHz	CAD FILE 111417	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361		