

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



Waveguide Magic Tees Technical Data Sheet PEWMT1002 Features 50 to 75 GHz Frequency Range E to H Port Isolation 25 dB Min Collinear Port Isolation 15 dB Min Collinear Port Isolation 15 dB Min Test and Measurement Military Communications Commercial Communications SATCOM

Description

Pasternack's PEWMT1002 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.

Electrical Specifications

Minimum	Typical	Maximum	Units
50		75	GHz
		1	dB
25			dB
15			dB
	50 25	50 25	50 75 1 25

Mechanical Specifications

Size	
Weight	1.24 lbs [562.45 g]
Waveguide Size Flange Type Flange Designation Body Material and Plating Body Plating Specification	WR-15 Round Cover UG-385/U Aluminum, Gold ASTMB488

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-15 Waveguide Magic Tee, UG-385/U Round Cover Flange Operating from 50 GHz to 75 GHz PEWMT1002

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Isolation 0 dB Port 1-4 Port 2-3 -10 -20 -30 -40 MMAMM -50 -60 -70 50 GHz 55 60 65 70 75

Waveguide Magic Tees Technical Data Sheet

WR-15 Waveguide Magic Tee, UG-385/U Round Cover Flange Operating from 50 GHz to 75 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-15 Waveguide Magic Tee, UG-385/U Round Cover Flange Operating from 50 GHz to 75 GHz PEWMT1002

URL: https://www.pasternack.com/wr-15-waveguide-magic-tee-ug385-round-75-ghz-pewmt1002-p.aspx

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

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PEWMT1002

PEWMT1002 CAD Drawing

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