MI-WAVE®
Millimeter Wave Products Inc.

635H/387

TEST DATA SHEET

Description

Mi-Wave's 635 series Magic Tee consist of three mutually perpendicular flanged sections of a standard waveguide. Power applied to H plane port is divided between the two in-line ports of the main tee section to result in equal power, in-phase output signals. Power applied to E plane port is divided between the two in-line ports of the main tee section to result in equal power, opposite-phase output signals.

Notes

Standard products meet full performance specifications over 80% of the waveguide band, with slightly degraded performance over the balance of the band.

S/N: NA

Electrical Specifications

	Minimal	Typical	Maximum
Frequency	170 GHz		260 GHz
Insertion Loss (not including 3db power split)		4 dB	
Isolation E plane to H plane		20 dB	
Isolation Collinear arms		20 dB	
VSWR, H plane		1.6:1	
VSWR, E plane		1.6:1	
Power Imbalance		±1.5 dB	
Operating Temperature	-40°C		+75°C
Storage Temperature	-50°C		+85°C

Physical Specifications

Input and Output Ports	WR-04 Waveguide
Flange	UG-387/U-M Flange
Material	Brass / Aluminum
Finish	Gold Plating

Tested by: Kim Madden

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RoHS compliant
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REACH COMPLIANCE