

#### **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	8.2 GHz		12.4 GHz
Insertion Loss		0.5 dbi	
Isolation E plane to H plane		35 dB	
Isolation Collinear arms		25 dB	
VSWR, H plane		1.5:1	
VSWR, E plane		1.6:1	
Power Imbalance		±0.5 dB	

# **Physical Specifications**

Input and Output Ports	WR-90 Waveguide
Flange	UG-39/U Flange
Material	Aluminum
Finish	Chem Film

Tested by: Mark Smith

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