

Description

Mi-Wave's 630/635 Series E/H Hybrid and Magic Tees consist of three mutually perpendicular flanged sections of a standard waveguide. Two of these sections

- · Equal Power Division
- Available from 12.4 to 325GHz
- High Isolation Provided by Symmetrical Construction

are symmetrically located on the broad and narrow walls of the main tee section to provide E-plane and H-plane connections.

The internal geometry of these hybrids provides a power-dividing and phase-inverting characteristic. Power applied to the shunt H-plane arm 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 the series E-plane arm is also divided between these two ports, but with a phase reversal which provides equal power, opposite-phase outputs. With symmetrical construction, good isolation is maintained between the E-plane and H-plane arms. The 630/635 Series Hybrid Tees are available in standard wave-guide sizes from 12.4 to 325 GHz.



The 630/635 Series Hybrid Tees are four-port transmission line components designed for basic power-splitting and mixing applications. These devices are useful as integral parts of RF bridge circuits for routine impedance comparisons and reflection coefficient measurements or as power dividers and isolators in radar balanced mixer circuits. In the 630 series (E) and shunt (H) arms are not matched, these units are not suited for low VSWR applications. For matched applications, Mi-Wave recommends 635 Series Magic Tee.



Dimensional Specifications							
Model No.	A		В		С		Weight
	in.	mm	in.	mm	in.	mm	(oz)
635Ku	2.50	63.5	1.25	31.7	2.25	57.2	5.5
635K	2.50	63.5	1.25	31.7	1.63	41.4	5.5
635A	2.50	63.5	1.25	31.7	1.20	30.5	5.0
635B	2.50	63.5	1.25	31.7	1.17	29.7	4.8
635U	2.50	63.5	1.25	31.7	1.15	29.2	4.4
635V	2.00	50.8	1.00	25.4	0.85	21.6	3.4
635E	2.00	50.8	1.00	25.4	0.83	21.1	3.2
635W	2.00	50.8	1.00	25.4	0.82	20.8	3.0
635F	1.50	38.1	0.75	19.1	0.56	14.2	2.2
635D	1.50	38.1	0.75	19.1	0.55	14.0	1.6
635G	1.50	38.1	0.75	19.1	0.54	13.7	1.5

Please inquire with Mi-Wave for 630 specifications.

Consult with MI-wave for current outline dimensions

Ordering Information



