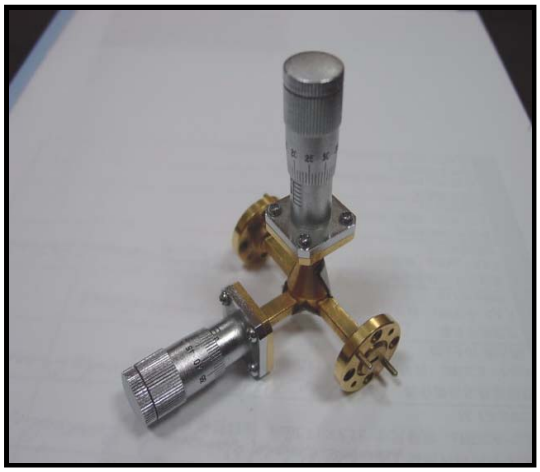
CERNEX, Inc.

E-Plane Series and H-Plane Series Tees

FEATURES:

- Unmatched Ports
- Geometrical Symmetry
- Available from 12.4 to 220 GHz
- Equal Power Division Between the Two Outputs



CTE Series

DESCRIPTION:

Cernex's CTE series E-plane tees consist of a length of standard flanged waveguide with a perpendicular E-plane coupling arm symmetrically located on the broad waveguide wall. Input power is divided equally and in opposite phase between the two outputs. Similarly, the H-plane tees feature an H-plane coupling arm located on the narrow waveguide wall. Power at the coupling arm input is divided into equal signals in phase at the main outputs. These devices are available in standard waveguide sizes from 12.4 to 220 GHz. Neither E/H tees have matched junctions and therefore are not recommended for low VSWR applications.

SPECIFICATIONS:

Waveguide Size		Ku	K	Ka	Q	U	V	E	W	F	D	G
Waveguide Size		WR-62	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10	WR-8	WR-7	WR-5
Frequency Range (GHz)		12.0 to 18.0	18.0 to 26.5	26.5 to 40.0	33.0 to 50.0	40.0 to 60.0	50.0 to 75.0	60.0 to 90.0	75.0 to 110.0	90.0 to 140.0	110.0 to 170.0	140.0 to 220.0
E-Plane												
A	in	2.50	2.40	2.40	2.40	2.40	2.00	2.00	2.00	1.50	1.50	1.50
	mm	63.50	60.96	60.96	60.96	60.96	50.80	50.80	50.80	38.10	38.10	38.10
B	in	1.25	1.20	1.20	1.20	1.20	1.00	1.00	1.00	0.75	0.75	0.75
	mm	31.75	30.48	30.48	30.48	30.48	25.40	25.40	25.40	19.05	19.05	19.05
H-Plane												
A	in	2.50	2.40	2.40	2.40	2.40	2.40	2.00	2.00	1.50	1.50	1.50
	mm	63.50	60.96	60.96	60.96	60.96	60.96	50.80	50.80	38.10	38.10	38.10
B	in	1.25	1.20	1.20	1.20	1.20	1.00	1.00	1.00	0.75	0.75	0.75
	mm	31.75	30.48	30.48	30.48	30.48	25.40	25.40	25.40	19.05	19.05	19.05

HOW TO ORDER:

Specify Model Number CTE – WG XP – XX ← To be specified by the factory

Waveguide Size

E for E-plane, **H** for H-Plane

Example: To order WR-15 E-Plane tees, specify CTE-15EP-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE