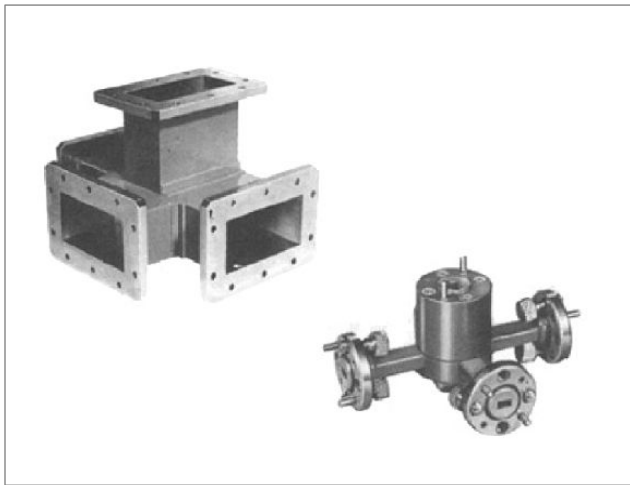
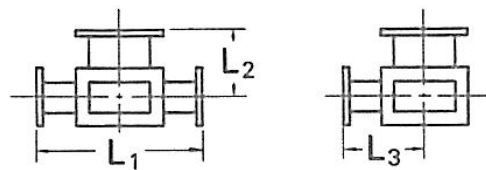


Waveguide Magic Tees



The Model WMT Waveguide Magic Tees are widely used as hybrid circuits in microwave impedance bridges, balanced mixers in receivers, and frequency discriminators. The structure is composed of an E-plane branch and H-plane branch coupled with each other, providing good impedance characteristics and symmetric property over the entire frequency range. It has been designed to minimize the leakage of RF wave between the E-plane and H-plane branches with other waveguide ports perfectly matched.



| Model | Frequency Range(GHz) | VSWR | | Leakage (dB) | Unbalance (dB) | Waveguide | Frequency Measuring (GHz) | | | Waveguide Length L1xL2x L3(mm) | | |
|----------|----------------------|---------|---------|--------------|----------------|-----------|---------------------------|------|------|--------------------------------|------|-----|
| | | E-Input | H-Input | | | | | | | | | |
| WMT-021 | 1.9 ~ 2.3 | 1.4 | 1.2 | -35 | 0.2 | WRJ-2 | 1.9 | 2.1 | 2.3 | 250x | 125x | 125 |
| WMT-031 | 2.7 ~ 3.3 | 1.4 | 1.2 | -35 | 0.2 | WRJ-3 | 2.7 | 3.0 | 3.3 | 150x | 75x | 75 |
| WMT-041 | 3.7 ~ 4.3 | 1.4 | 1.2 | -35 | 0.2 | WRJ-4 | 3.7 | 4.0 | 4.3 | 150x | 75x | 75 |
| WMT-051 | 4.5 ~ 5.3 | 1.4 | 1.2 | -35 | 0.2 | WRJ-5 | 4.5 | 4.9 | 5.3 | 150x | 75x | 75 |
| WMT-061 | 5.8 ~ 6.5 | 1.4 | 1.2 | -35 | 0.2 | WRJ-6 | 5.8 | 6.15 | 6.5 | 100x | 50x | 50 |
| WMT-071 | 6.4 ~ 7.2 | 1.4 | 1.2 | -35 | 0.2 | WRJ-7 | 6.4 | 6.8 | 7.2 | 100x | 50x | 50 |
| WMT-091 | 8.0 ~ 9.4 | 1.4 | 1.2 | -35 | 0.2 | WRJ-9 | 9.0 | 9.2 | 9.4 | 75x | 35x | 35 |
| WMT-106 | 8.8 ~ 9.3 | 1.4 | 1.2 | -35 | 0.2 | WRJ-10 | 8.8 | 9.2 | 9.6 | 75x | 30x | 30 |
| WMT-106H | 10.5 ~ 11.7 | 1.8 | 1.3 | -35 | 0.2 | WRJ-10 | 10.5 | 11.1 | 11.7 | 75x | 30x | 30 |
| WMT-126 | 12.0 ~ 13.4 | 1.8 | 1.3 | -35 | 0.2 | WRJ-120 | 12.0 | 12.7 | 13.4 | 70x | 35x | 35 |
| WMT-156 | 14.0 ~ 16.0 | 1.8 | 1.3 | -30 | 0.3 | WRJ-140 | 14.0 | 15.0 | 16.0 | 60x | 30x | 30 |
| WMT-186 | 17.0 ~ 18.5 | 1.8 | 1.3 | -30 | 0.3 | WRJ-180 | 17.0 | 17.7 | 18.5 | 50x | 25x | 25 |
| WMT-246 | 22 ~ 25 | 1.8 | 1.3 | -30 | 0.3 | WRJ-220 | 22 | 23.5 | 25 | 50x | 25x | 25 |
| WMT-346 | 33 ~ 37 | 1.8 | 1.3 | -30 | 0.3 | WRJ-320 | 33 | 35 | 37 | 60x | 30x | 30 |
| WMT-503 | 44 ~ 48 | 1.8 | 1.5 | -25 | 0.5 | WRJ-500 | 44 | 46 | 48 | 60x | 20x | 30 |

