

Appendix L Table 2-1 TE₀₁ Circular Waveguides

| Standard Waveguide | | | MIL-W-23068 Circular Waveguide | | | |
|--------------------|------|--------------------|--------------------------------|------|--------------------|-----------|
| I.D. (inches) | O.D. | Frequency (GHz) | I.D. (inches) | O.D. | Frequency (GHz) | Type |
| 1.500 X 1.750 | | 11.6-16.0 | 1.500 X 1.700 | | 11.6-16.0 | WRC530D14 |
| 1.265 X 1.375 | | 13.2-18.9 | 1.281 X 1.441 | | 13.6-18.7 | WRC621D14 |
| 1.106 X 1.250 | | 15.9-21.9 | 1.094 X 1.224 | | 15.9-21.9 | WRC727D14 |
| 0.951 X 1.125 | | 18.6-25.6 | 0.938 X 1.068 | | 18.6-25.6 | WRC849D14 |
| 0.686 X 0.750 | | 25.3-34.9 | 0.797 X 0.897 | | 21.9-30.1 | WRC997D14 |
| 0.688 X 0.888 | | 25.3-34.9 | 0.688 X 0.788 | | 25.3-34.9 | WRC116C14 |
| 0.634 X 0.750 | | 27.3-38.0 | 0.594 X 0.674 | | 29.3-40.4 | WRC134C14 |
| 0.545 X 0.625 | | 32.0-44.0 | _____ | | _____ | N/A |
| 0.495 X 0.625 | | 34.8-48.0 | 0.500 X 0.580 | | 34.8-48.0 | WRC159C14 |
| _____ | | _____ | 04.38 X 0.518 | | 39.8-54.8 | WRC182C14 |
| 0.370 X 0.500 | | 46.4-63.9 | 0.375 X 0.435 | | 46.4-63.9 | WRC212C14 |
| 0.353 X 0.438 | | 50.0-68.0 | 0.328 X 0.388 | | 53.1-73.1 | WRC243C14 |
| 0.291 X 0.375 | | 62.0-84.0 | 0.281 X .0341 | | 61.9-85.2 | WRC283C14 |
| 0.249 X 0.313 | | 69.7-95.9 | 0.250 X 0.290 | | 69.7-95.9 | WRC318C14 |
| 0.201 X 0.290 | | 86.0-115.0 | 0.219 X 0.259 | | 79.6-110.0 | WRC364C14 |
| 0.186 X 0.250 | | 93.0-128.0 | 0.188 X 0.228 | | 92.9-128.0 | WRC424C14 |
| _____ | | _____ | 0.172 X 0.212 | | 101.0-139.0 | WRC463C14 |
| _____ | | _____ | 0.141 X 0.181 | | 124.0-171.0 | WRC566C14 |