



Specifications

| FREQUENCY BAND | | K | Ka | Q | U | V | E | W |
|---------------------------------------------------|----------------------------------|---------|---------|-------|-------|-------|-------|--------|
| Frequency Range (GHz) | | 18-26.5 | 26.5-40 | 33-50 | 40-60 | 50-75 | 60-90 | 75-110 |
| Waveguide Size | | WR-42 | WR-28 | WR-22 | WR-19 | WR-15 | WR-12 | WR-10 |
| Bandwidth (GHz min) | | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Isolation (dB min) | Single-Junction | 20 | 20 | 20 | 20 | 20 | 18 | 18 |
| | Three-Junction (Circulator Only) | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Insertion Loss (dB max) | Single-Junction | 0.3 | 0.5 | 0.5 | 0.6 | 0.7 | 0.8 | 1 |
| | Three-Junction (Circulator Only) | 1 | 1 | 1.1 | 1.2 | 1.3 | 1.5 | 1.6 |
| VSWR (max) | | 1.2:1 | 1.2:1 | 1.2:1 | 1.2:1 | 1.3:1 | 1.3:1 | 1.3:1 |
| Power Rating (Watts max), QJY Junction Circulator | | 10 | 8 | 8 | 6 | 5 | 5 | 4 |
| Power Rating (Watts max), QJI Junction Isolator | | 3 | 3 | 2 | 2 | 1.5 | 1 | 1 |

Other waveguide sizes are available.

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Mechanical Specifications

| FREQUENCY BAND | WAVEGUIDE SIZE | FLANGE PATTERN | SINGLE JUNCTION OUTLINE DIMENSIONS, inches/mm | | | THREE-JUNCTION OUTLINE DIMENSIONS, inches/mm | | |
|----------------|----------------|----------------|-----------------------------------------------|-----------|-----------|----------------------------------------------|-----------|-----------|
| | | | A | B | C | A | B | C |
| K | WR-42 | UG-595/U | 1.20/30.5 | 0.88/22.4 | 1.00/25.4 | 1.50/38.1 | 1.20/30.5 | 2.00/50.8 |
| Ka | WR-28 | UG599/U | 0.90/22.9 | 0.80/20.3 | 0.90/22.9 | 1.25/31.8 | 1.20/30.5 | 1.50/38.1 |
| Q | WR-22 | UG-383/U | 1.45/36.8 | 1.20/30.5 | 1.13/28.7 | 1.25/31.8 | 1.20/30.5 | 1.50/38.1 |
| U | WR-19 | UG-383/U | 1.45/36.8 | 1.20/30.5 | 1.13/28.7 | 1.25/31.8 | 1.20/30.5 | 1.50/38.1 |
| V | WR-15 | UG-385/U | 1.05/26.7 | 0.85/21.6 | 1.00/25.4 | 1.14/29.0 | 0.98/24.9 | 1.10/27.9 |
| E | WR-12 | UG-387/U | 1.05/26.7 | 0.85/21.6 | 1.00/25.4 | 1.14/29.0 | 0.98/24.9 | 1.10/27.9 |
| W | WR-10 | UG-387/U | 1.05/26.7 | 0.85/21.6 | 1.00/25.4 | 1.14/29.0 | 0.98/24.9 | 1.10/27.9 |

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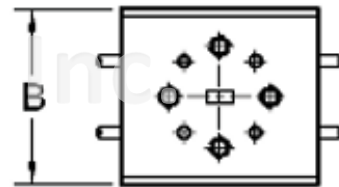
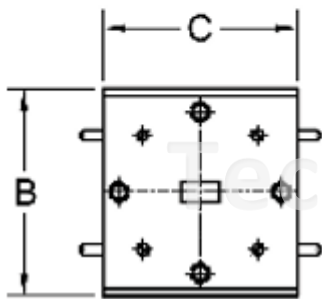
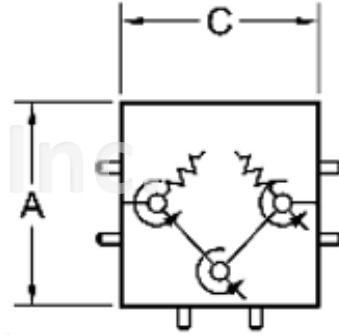
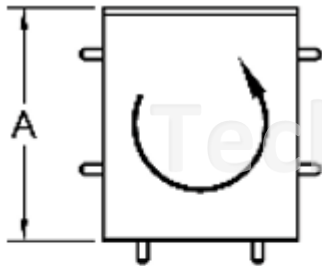
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Outlines



Single-Junction Circulators and Isolators
(round flange pattern shown)

Three-Junction Circulators
(round flange pattern shown)