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# DUAL JUNCTION WAVEGUIDE ISOLATORS

## (8.5 to 110.0 GHz)

| FREQ. RANGE (GHz) | MODEL NUMBER | BAND WIDTH (%) | INS. LOSS dB (max) | ISOLATION dB (min) | VSWR (max) | FORWARD POWER (W) | LOAD POWER (W) | DIMENSIONS (mm) W | L | H | WAVEGUIDE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8.5-9.6 | 4IWD90-1 | full | 0.60 | 40 | 1.17 | 50 | 0.5, 2.0 | 63.50 | 69.85 | 41.40 | WR-90 |
| 8.5-9.6 | 4IWD90-1 | full | 0.60 | 40 | 1.17 | 50 | 0.5, 2.0 | 76.20 | 69.85 | 41.40 | WR-90 |
| 17.7-21.5 | 4IWD19-1 | full | 0.70 | 40 | 1.25 | 50 | 0.5, 2.0 | 40.60 | 50.80 | 33.30 | WR-51 |
| 51.0-59.0 | 4IWD55-1 | full | 1.00 | 40 | 1.35 | 1 | 0.5, 2.0 | 38.00 | 25.40 | 22.00 | WR-15 |
| 91.0-92.0 | 4IWD92-1 | full | 1.00 | 40 | 1.35 | 1 | 0.5, 2.0 | 25.40 | 25.40 | 19.7 | WR-10 |
| 8.5-12.0 | 4IWD(xx)-1X | 10% | 0.60 | 40 | 1.17 | 50 | 0.5, 2.0 | 63.50 | 69.85 | 41.40 | WR-90 |
| 8.5-12.0 | 4IWD(xx)-2X | 10% | 0.60 | 40 | 1.17 | 50 | 0.5, 2.0 | 76.20 | 69.85 | 41.40 | WR-90 |
| 10.5-14.6 | 4IWD(xx)-3X | 7% | 0.60 | 38 | 1.20 | 50 | 0.5, 2.0 | 76.20 | 76.20 | 38.10 | WR-75 |
| 18.0-26.5 | 4IWD(xx)-4X | 10% | 0.7 | 37 | 1.22 | 50 | 0.5, 2.0 | TBD | TBD | TBD | WR-42 |
| 26.5-40.0 | 4IWD(xx)-5X | 10% | 0.7 | 37 | 1.35 | 2 | 0.5, 2.0 | TBD | TBD | TBD | WR-28 |
| 40.0-60.0 | 4IWD(xx)-6X | 5% | 1.00 | 37 | 1.35 | 1 | 0.5, 1.0 | TBD | TBD | TBD | WR-19 |
| 50.0-75.0 | 4IWD(xx)-7X | 5% | 1.00 | 37 | 1.35 | 1 | 0.5, 1.0 | TBD | TBD | TBD | WR-15 |
| 75.0-110.0 | 4IWD(xx)-8X | 3.5% | 1.00 | 37 | 1.35 | 1 | 0.5, 1.0 | TBD | TBD | TBD | WR-10 |

**NOTES:**

1. Operating temperature range for all devices is -30° to +70°
2. (xx) Identifies the center frequency of the device in GHz
3. Modified versions of all devices are available
4. Load power rating can be 0.5W or 2W - specify higher power rating if required
5. Fig.40 shows the sketch of the dual junction isolators
6. Circulation is clockwise unless otherwise specified



**Fig.40 Dual Junction Waveguide Isolator**

Waveguide devices (Adobe Acrobat version) - 554 kB

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