



QMH Specifications

| FREQUENCY BAND | K | Ka | Q | U | V | E | W |
|--|-----------|---------|-------|-------|-------|-------|--------|
| Frequency Range (GHz) | 18-26.5 2 | 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 |
| Conversion Loss (dB typ) ¹ | 20 | 22 | 24 | 26 | 28 | 35 | 40 |
| Minimum Detectable Signal in 1 kHz bandwidth (dBm, typ.) ² | -95 | -85 | -80 | -75 | -75 | -70 | -65 |
| Custom Products available. Contact us at sales@quinstar.com or submit an RFQ. | | | | | | | |

Other waveguide sizes are available.

1. For 9th harmonic of LO, IF < 1 GHz. Typical LO power range is 6 to 13 dBm.
2. For other harmonics, the minimum detectable signal may vary.



QMH Mechanical Specifications

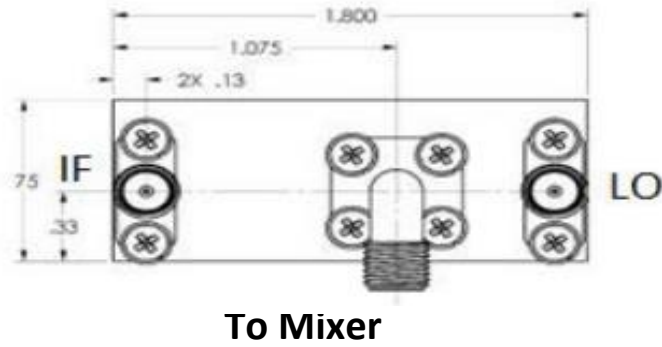
| Frequency Band | Waveguide Size | Flange Pattern | Video Output | Outline Dimensions, inches/mm | | |
|----------------|----------------|----------------|--------------|-------------------------------|-----------|------------|
| | | | | A | B | C |
| K | WR-42 | UG-595/U | SMA JACK | 0.88/22.4 | 0.88/22.4 | 1.5/38.1 |
| Ka | WR-28 | UG-599/U | SMA JACK | 0.76/19.3 | 0.76/19.3 | 1.5/38.1 |
| Q | WR-22 | UG-383/U1 | SMA JACK | 1.12/28.4 | 1.12/28.4 | 1.25/31.75 |
| U | WR-19 | UG-383/U1 | SMA JACK | 1.12/28.4 | 1.12/28.4 | 1.25/31.75 |
| V | WR-15 | UG-385/U S | SMA JACK | 0.75/19.1 | 0.75/19.1 | 0.75/19.1 |
| E | WR-12 | UG-387/U | SMA JACK | 0.75/19.1 | 0.75/19.1 | 0.75/19.1 |
| W | WR-10 | UG-387/U | SMA JACK | 0.75/19.1 | 0.75/19.1 | 0.75/19.1 |

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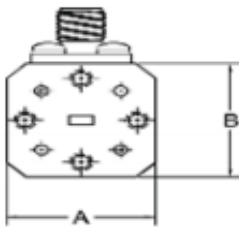
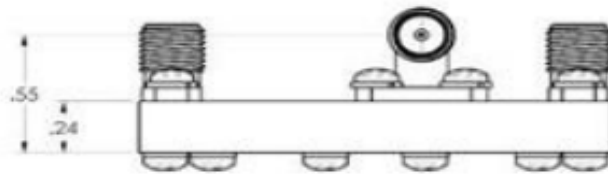
1. Square flanges available for Q and U band.



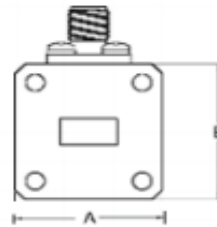
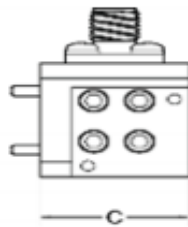
QMH Outline Drawings



Diplexer Outline



WR-22 through WR-10



WR-42 and WR-28

