

Part No:

HWSS19-2.0-ER



WR-19 Millimeter Waveguide Straight Section, 2 Inch 40 GHz to 60 GHz, U-Band

The HASCO WR-19 Millimeter Waveguide Straight Section **HWSS19-2.0-ER** operates from 40 GHz to 60 GHz. This WR-19, U-Band waveguide section is constructed with a Round UG-383/U-M Flange.

HASCO rectangular waveguides are manufactured from brass, OFHC copper, aluminum or coin silver. Waveguides have significant advantages over coaxial transmission in power handling, insertion loss and signal integrity (leakage and electromagnetic interference - EMI).

HASCO offers a series of millimeter waveguide straight sections, E-Bends, H-Bends and 90° Twists. Anti-cocking flanges available if required. All are available in standard and custom lengths covering the waveguide sizes WR-3, WR-4, WR-5, WR-6, WR-8, WR-10, WR-12, WR-15, WR-19, WR-22, WR-28, WR-34 and WR-42. Square waveguide flanges are available in WR-22, WR-28, WR-34 and WR-42. Please contact HASCO for custom options.

Specifications

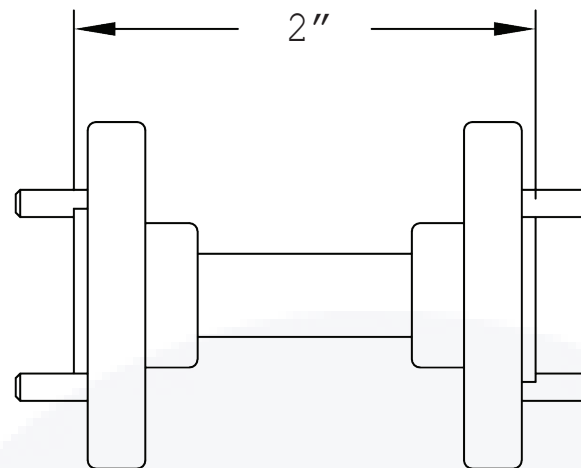
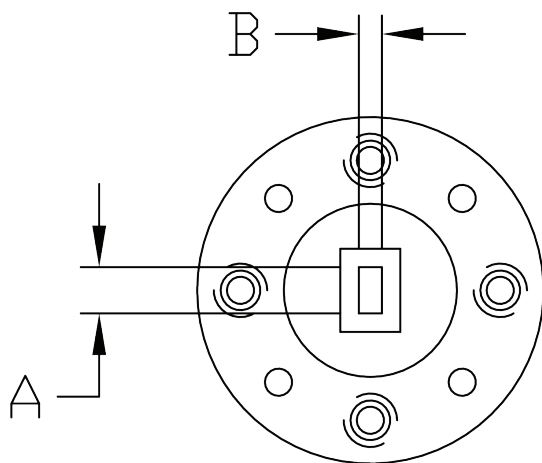
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|-------------------|--|
| • Frequency Range | 40 GHz to 60 GHz |
| • VSWR | 1.02:1 |
| • Impedance | 50 Ohms |
| • Length | 2 inch |
| • RF Ports | WR-19 Waveguide with UG-383/U-M Flange |

Environmental Data

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|---------------------|-----------|
| • Temperature Range | 220°C Max |
|---------------------|-----------|

Material

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|-------------|-------------------------------|
| • Waveguide | OFHC Copper |
| • Flange | Round UG-383/U-M, Brass |
| • Finish | Gold Plated per MIL-DTL-45204 |



| Part Number | WG Size | DIM A | DIM B |
|---------------|---------|-------|--------|
| HWSS22-X.X-ER | WR-22 | 0.224 | 0.112 |
| HWSS19-X.X-ER | WR-19 | 0.188 | 0.094 |
| HWSS15-X.X-ER | WR-15 | 0.148 | 0.074 |
| HWSS12-X.X-ER | WR-12 | 0.122 | 0.061 |
| HWSS10-X.X-ER | WR-10 | 0.100 | 0.050 |
| HWSS08-X.X-ER | WR-08 | 0.080 | 0.040 |
| HWSS06-X.X-ER | WR-06 | 0.065 | 0.0325 |
| HWSS05-X.X-ER | WR-05 | 0.051 | 0.0255 |
| HWSS04-X.X-ER | WR-04 | 0.043 | 0.0215 |
| HWSS03-X.X-ER | WR-03 | 0.034 | 0.017 |

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|---------------------------------------|-------------|-------|-------|--|-----------------|
| LTR | DESCRIPTION | DATE | APPR. | CREATED BY: JMS | CHECKED BY: TAC |
| - | RELEASE | 08/19 | TAC | APPROVED BY: TAC | |
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| MATERIALS: SEE DATA SHEET | CAGE CODE: 0T8L4 | SCALE: N/A | SIZE: A |
| FINISHES: SEE DATA SHEET | PART NO./DRAWING NO. HWSS19-2.0-ER | | REV: - |