The Waveguide Solution pressure windows incorporate a seal of glass reinforced PTFE. All windows are pressure tested to 40 psi. The bodies can be made of brass or aluminium. Various Finishes can be applied (see ordering instructions). Standard windows have plain faces without a sealing groove and can be supplied to mate with most common flange outlines. Windows for standard rectangular waveguide sizes have a VSWR better than 1.10:1 over the full waveguide bandwidth, or 1.05:1 over a 50% bandwidth. Double Ridge sizes have a VSWR better than 1.10:1 over an octave bandwidth, or 1.15:1 over the full frequency band. The Waveguide Solution facility is approved to ISO 9001:2000.
Pressure Windows enable the Pressurization of waveguide to eliminate moisture and improve power-handling capability. Standard products also include Inlet Sections, Air Inlet Flanges and Hardware Kits.

Contact our Sales Department for more information.
### Standard Rectangular

**Specification:**
- **Body Material:** Brass
- **Window Material:** PTFE
- **Finish:** Unplated
- **Pressure:** 40psi Maximum

<table>
<thead>
<tr>
<th>Operating Frequency Band (GHz)</th>
<th>Waveguide Designation</th>
<th>TWS PART NUMBER</th>
<th>Max V.S.W.R.</th>
<th>Power Average (cw) KW max</th>
<th>Power Peak KW max</th>
<th>Thickness “A” (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.60 – 3.95</td>
<td>10 - 32 - 284</td>
<td>RW 10 –SZZ- (*<strong>)-B-(</strong>)</td>
<td>1.1</td>
<td>2.0</td>
<td>2,000</td>
<td>7.2</td>
</tr>
<tr>
<td>3.30 – 4.90</td>
<td>11A - 40 - 229</td>
<td>RW 11A –SZZ- (*<strong>)-B-(</strong>)</td>
<td>1.1</td>
<td>2.0</td>
<td>2,000</td>
<td>6.15</td>
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<tr>
<td>3.95 – 5.85</td>
<td>12 - 48 - 187</td>
<td>RW 12 –SZZ- (*<strong>)-B-(</strong>)</td>
<td>1.1</td>
<td>1.5</td>
<td>1,500</td>
<td>4.8</td>
</tr>
<tr>
<td>4.90 – 7.05</td>
<td>13 - 58 - 159</td>
<td>RW 13 –SZZ- (*<strong>)-B-(</strong>)</td>
<td>1.1</td>
<td>1.3</td>
<td>1,300</td>
<td>4.0</td>
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<tr>
<td>5.85 – 8.20</td>
<td>14 - 70 - 137</td>
<td>RW14 –SZZ- (*<strong>)-B-(</strong>)</td>
<td>1.1</td>
<td>1.0</td>
<td>1,000</td>
<td>3.4</td>
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<td>7.05 – 10.0</td>
<td>15 - 84 - 112</td>
<td>RW 15 –SZZ- (*<strong>)-B-(</strong>)</td>
<td>1.1</td>
<td>0.8</td>
<td>800</td>
<td>2.8</td>
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<td>8.20 – 12.40</td>
<td>16 - 100 - 90</td>
<td>RW 16 –SZZ- (*<strong>)-B-(</strong>)</td>
<td>1.1</td>
<td>0.5</td>
<td>500</td>
<td>2.3</td>
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<tr>
<td>10.0 – 15.0</td>
<td>17 - 120 - 75</td>
<td>RW 17 –SZZ- (*<strong>)-B-(</strong>)</td>
<td>1.1</td>
<td>0.3</td>
<td>300</td>
<td>1.9</td>
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<tr>
<td>12.4 – 18.0</td>
<td>18 - 140 - 62</td>
<td>RW 18 –SZZ- (*<strong>)-B-(</strong>)</td>
<td>1.1</td>
<td>0.15</td>
<td>150</td>
<td>1.5</td>
</tr>
<tr>
<td>18.0 – 26.5</td>
<td>20 - 220 - 42</td>
<td>RW 20 –SZZ- (*<strong>)-B-(</strong>)</td>
<td>1.15</td>
<td>0.1</td>
<td>100</td>
<td>1.1</td>
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<tr>
<td>26.5 – 40.0</td>
<td>22 - 320 - 48</td>
<td>RW 22 –SZZ- (*<strong>)-B-(</strong>)</td>
<td>1.15</td>
<td>0.06</td>
<td>60</td>
<td>0.76</td>
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</tbody>
</table>

*** For 3 Digit Rectangular Flange part number, refer to the TWS Flange catalogue, or consult the factory.
### Ordering Information

<table>
<thead>
<tr>
<th>RW 16</th>
<th>S</th>
<th>Z</th>
<th>Z</th>
<th>402</th>
<th>B</th>
</tr>
</thead>
</table>

**MATERIAL**
- A = ALUMINIUM (STANDARD FOR DOUBLE RIDGE WAVEGUIDE)
- B = BRASS (STANDARD FOR RECTANGULAR WAVEGUIDE)

**FLANGE X**
SELECT THE REQUIRED FLANGE BY SELECTING THE LAST 3 DIGITS OF THE TWS FLANGE PART No.
E.g. 402 = UBR FLANGE

**FINISH**
- Z = UNPLATED (STANDARD FOR BRASS MATERIAL)
- H = CHROMATE
- F = IRIDITE
- A = TIN (OPTIONAL FOR BRASS MATERIAL)
- B = SILVER (OPTIONAL FOR BRASS MATERIAL)

**PAINT**
- Z = UNPLATED (STANDARD FOR BRASS MATERIAL)

**TYPE**
- S = STANDARD

**WAVEGUIDE SIZE**
USE THE BRITISH WG SIZE FOR RECTANGULAR WAVEGUIDE or THE MIL SPEC. WRD SIZE FOR DOUBLE RIGDE WAVEGUIDE
E.g. 16 = WAVEGUIDE SIZE WG16
750 = WRD750

**PRODUCT CODE**
- RW = PRESSURE WINDOW

**Notes:**
1) The flange should match the material of the device to remain standard

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For assistance selecting RoHS options please contact the factory

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Devon TQ12 6UT ● United Kingdom

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E-mail: enquiries@waveguidesolution.co.uk
www.waveguidesolution.co.uk

Specifications shown on this document are offered as a guide only. Components may be modified to suit the mechanical or electrical parameters requested, or may be optimized to suit the operating frequency range. Frequency range of operation shall be advised when ordering.

Information provided in this brochure is for reference only. Dimensions or specifications are typical values. All designs, specifications and availabilities of products and services presented in this document may be subject to change without notice. For confirmation of details please consult your agent or manufacturer. Issue 1.0a