Waveguide Rotary Joints - U, L and IL

1.70 - 22.00 GHz Performance Frequency
1.25 Typical Max VSWR (VSWR varies with design)
Numerous Flange Configurations available
Aluminum (6061) or Copper WR Waveguide Available

Advanced Microwave Components offers an array of waveguide rotary joints. AMC also offers special unit design upon customer request. All AMC components are produced with the highest quality available. We insure our quality to a MIL-I-45208 Inspection System.

<table>
<thead>
<tr>
<th>WAVEGUIDE FLANGES:</th>
</tr>
</thead>
<tbody>
<tr>
<td>A = AMC QUICK DISCONNECT (MALE) PATENT PROTECTED</td>
</tr>
<tr>
<td>B = AMC QUICK DISCONNECT (FEMALE) PATENT PROTECTED</td>
</tr>
<tr>
<td>C = CPR STYLE GROOVED (CLEAR HOLES)</td>
</tr>
<tr>
<td>D = CPR STYLE GROOVED (ALL TAP)</td>
</tr>
<tr>
<td>E = CPR STYLE FLAT (ALL TAP)</td>
</tr>
<tr>
<td>F = CPR STYLE FLAT (CLEAR HOLES)</td>
</tr>
<tr>
<td>G = CPR STYLE CONTACT (CLEAR HOLES)</td>
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<tr>
<td>H = CPR STYLE CONTACT (ALL TAP)</td>
</tr>
<tr>
<td>I = CMR (CLEAR HOLES)</td>
</tr>
<tr>
<td>J = CMR (ALT TAP, CLEAR)</td>
</tr>
<tr>
<td>K = CMR (ALL TAP)</td>
</tr>
<tr>
<td>L = UG COVER (CLEAR HOLES)</td>
</tr>
<tr>
<td>M = UG COVER (ALL TAP)</td>
</tr>
<tr>
<td>N = UG COVER GROOVE (CLEAR HOLES)</td>
</tr>
<tr>
<td>O = UG COVER GROOVE (ALL TAP)</td>
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</tbody>
</table>
**MODELS**

- **P** = UG CHOKE (ALL TAP)
- **Q** = UG CHOKE (CLEAR HOLES)
- **R** = UBR
- **S** = PBR
- **T** = CBR
- **U** = UDR
- **V** = PDR
- **W** = CDR
- **X** = SPECIAL FLANGES (CUSTOMER TO SPECIFY)

**MODEL NUMBERS:**

- **IL** = INLINE
- **U** = U-SHAPE
- **L** = L-SHAPE

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**EIA WR SIZE** | **FREQ: GHZ** | **DIM. "A"** | **DIM. "B"** | **FIG. TYPE** | **POWER WATTS (CW)**  
--- | --- | --- | --- | --- | ---  
75 | 14.0 - 14.5 | 1.57 | 2.25 | " 1 " | 600  
75 | 14.0 - 14.5 | 3.5 | - | " 2 " | 2000  
90 | 8.20 -12.4* | 4 | - | " 2 " | 1000  
112 | 7.05 -10.0* | 4 | - | " 2 " | 1000  
137 | 5.80 - 6.80 | 3.25 | 3 | " 1 " | 1000  
137 | 5.85 - 6.42 | 5 | - | " 2 " | 1000  
187 | 5.30 - 5.70 | 6.68 | - | " 2 " | 450  
284 | 2.70 - 3.20 | 9.9 | - | " 2 " | 2500  
430 | 1.75 - 2.30 | 12 | - | " 2 " | 3000  

**SAMPLE P/N:**

**AMC-RJ-IL-75-Q-B**

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**MODEL NO:** | **W/G SIZE** | **FLANGE** | **MATERIAL**  
--- | --- | --- | ---  
AMC-RJ-IL | 75 | Q | A=Alum.  
 |  |  | B=Brass  

The above referenced part number describes the following: WR75 "In-Line" style rotary joint, with choke flanges at both ends, made of brass.

**Note:** All AMC models include an iridite/corrosion protection treatment. Flanges are unplated, polished and iridited. Other finishes and paint colors are available upon request.