CROVEN CRYSTALS has provided high quality and reliability products to the frequency control industry for more than fifty years and is a world leader in the development and manufacture of the highest precision quartz resonators for demanding applications.

The HC-47 series of crystal resonators provides a broad range of frequencies and designs in a rugged, high reliability enclosure.

**Features:**
- Cold weld sealed for low aging and low phase noise applications
- available in AT, SC and IT-cut designs
- RoHS compatible (if required)

**Applications:**
- precision OCXO, VCXO and TCXO oscillators
- military and high reliability (multiple CR references)

<table>
<thead>
<tr>
<th>PARAMETER</th>
<th>Height &quot;H&quot;</th>
<th>Mode</th>
<th>MINIMUM</th>
<th>MAXIMUM</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resonant Frequency range @ specified load conditions and temperature</td>
<td>0.775&quot; (19.69mm)</td>
<td>Fund</td>
<td>1.6</td>
<td>35</td>
<td>MHz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3rd OT</td>
<td>4</td>
<td>105</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>5th OT</td>
<td>10</td>
<td>165</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>7th OT</td>
<td>80</td>
<td>230</td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>- 55</td>
<td>+ 125</td>
<td></td>
<td></td>
<td>° C</td>
</tr>
</tbody>
</table>

**PARAMETER** | **STANDARD METHOD OBSERVED**
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Shock | MIL-STD-202 Method 213, Condition C - 100 g, 6 msec 1/2 sine
Vibration | MIL-STD-202 Method 204, Condition C, 10 g peak 55-2000 Hz
Solderability | MIL-STD-202 Method 208
Workmanship | per the general requirements of MIL-PRF-3098

**Notes:**
1) Consult the factory for more detailed specifications or alternate requirements.