Electrical Specifications:

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Mode of Oscillation</th>
<th>Frequency Tolerance at 25°C</th>
<th>Frequency Stability over Temperature Range</th>
<th>Operating Temperature Range</th>
<th>Storage Temperature Range</th>
<th>Aging</th>
<th>Load Capacitance</th>
<th>Shunt Capacitance</th>
<th>Equivalent Series Resistance (ESR)</th>
<th>Drive Level</th>
<th>Insulation Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.372 to 133.000 MHz</td>
<td>Fundamental</td>
<td>±30</td>
<td>±25</td>
<td>±20</td>
<td>±15</td>
<td>±10</td>
<td>±50</td>
<td>±30</td>
<td>±25</td>
<td>±20</td>
<td>±15</td>
</tr>
<tr>
<td>7.372 to 52.000 MHZ</td>
<td>Third Overtone</td>
<td>-10 to +70</td>
<td>-40 to +85</td>
<td>-55 to +125</td>
<td>-10 to +70</td>
<td>-40 to +85</td>
<td>-55 to +125</td>
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<td>-55 to +125</td>
<td>-10 to +70</td>
</tr>
</tbody>
</table>

Frequency Range and ESR Values:

<table>
<thead>
<tr>
<th>Frequency Range in MHz</th>
<th>ESR Ohm Max</th>
<th>Mode of Operation</th>
<th>Frequency Range in MHz</th>
<th>ESR Ohm Max</th>
<th>Mode of Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.372 to 7.999</td>
<td>100</td>
<td>Fundamental</td>
<td>40.000 to 51.999</td>
<td>100</td>
<td>3rd Overtone</td>
</tr>
<tr>
<td>8.000 to 9.999</td>
<td>70</td>
<td>Fundamental</td>
<td>52.000 to 79.999</td>
<td>80</td>
<td>3rd Overtone</td>
</tr>
<tr>
<td>10.000 to 11.999</td>
<td>50</td>
<td>Fundamental</td>
<td>80.000 to 133.000</td>
<td>70</td>
<td>3rd Overtone</td>
</tr>
<tr>
<td>12.000 to 19.999</td>
<td>30</td>
<td>Fundamental</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>20.000 to 24.999</td>
<td>25</td>
<td>Fundamental</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>25.000 to 52.000</td>
<td>20</td>
<td>Fundamental</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Microprocessor Crystal Unit
Low Profile
6.0 x 3.5 millimeter Surface Mount - 4 Pad
General Product Specification

Part Number: C6S Series
Mechanical Outline:

Package is Seam Sealed Ceramic-Metal.
Dimensions are millimeters.
Carrier Tape Dimensions:

Solder Reflow Characteristics:
How to build a Part Number:

Part Number Example:
C6S-80.000-S-3030-3-R
C6S: 3.5 x 6.0 mm SMD Seam Seal Package - 4 Pad
80.000 MHz Nominal Frequency
S: Series Resonance
3030: ±30 PPM Frequency Tolerance and ±30 PPM Frequency Stability
3: Third Overtone Mode
-10 to +70 °C Temperature Range
R: Tape and Reel Packaging - 1000pcs Reel

Notes:
1- Fundamental mode does not need to be included in Part Number description.
* ±10 PPM Temperature Stability is only available from -30 to +85 °C.
2- Standard Temperature Range does not need to be included in Part Number description.
3- Product is shipped in Tape and Reel configuration. Each reel contains 1000 pieces.
4- Quantities less than 1000 are shipped bulk in ESD pouches.
5- Specification subject to change without notice.