Electrical Specifications:

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Mode of Oscillation</th>
<th>Fundamental</th>
<th>Frequency Tolerance at 25°C</th>
<th>Standard</th>
<th>Optional</th>
<th>Frequency Stability over Temperature Range</th>
<th>Standard</th>
<th>Optional</th>
<th>Operating Temperature Range</th>
<th>Standard</th>
<th>-10 to +70</th>
<th>Extended</th>
<th>-40 to +85</th>
</tr>
</thead>
<tbody>
<tr>
<td>24.000 to 48.000</td>
<td></td>
<td>24.000 to 48.000</td>
<td></td>
<td>±30</td>
<td>±25</td>
<td>±20</td>
<td>±15</td>
<td>±10</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Standard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Optional</td>
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<tr>
<td></td>
<td>Optional</td>
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<td></td>
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</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>
</tr>
</thead>
<tbody>
<tr>
<td>24.000 to 29.999</td>
<td>150</td>
<td>Fundamental</td>
</tr>
<tr>
<td>30.000 to 36.999</td>
<td>100</td>
<td>Fundamental</td>
</tr>
<tr>
<td>37.000 to 48.000</td>
<td>80</td>
<td>Fundamental</td>
</tr>
</tbody>
</table>
Mechanical Outline:

<TOP>

AKER

1.6 ± 0.15

#4 #3

1.2 ± 0.15

#1 #2

<SIDE>

Ceramic Base

Metal Lid

0.4 Max.

<BOTTOM>

0.3

0.5

#1 #2

#4 #3

#2:GND #4:NC

0.5

0.8

0.4

1.05

0.6

0.75

<SUGGESTED LAYOUT>

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

Dimensions are millimeters.

Solder Reflow Characteristics:
How to build a Part Number:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Series</th>
<th>Package</th>
</tr>
</thead>
<tbody>
<tr>
<td>C16-40.000-10-3030-R</td>
<td>C16</td>
<td>1.6 x 1.2 mm Seam Seal</td>
</tr>
</tbody>
</table>

Part Number Example:

C16-40.000-10-3030-R
C16- 1.6 x 2.0 mm SMD Seam Seal Crystal Unit
40.000 MHz Nominal Frequency
10 pF Load Capacitance
3030: ±30 PPM Frequency Tolerance and ±30 PPM Frequency Stability
Fundamental Mode
-20 to +70° C Temperature Range
R: Tape and Reel Packaging - 1000pcs

Notes:
1- Frequency Tolerance and Stability options are limited due to physical size.
  * ±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
4- Quantities less than 250pcs are shipped in tape only.
5- Specification subject to change without notice.