**NOTES:**


2. **ALTERNATE DIMENSIONS** ARE IN MILLIMETERS.

3. **ELECTRICAL SPECIFICATIONS:**
   3.1. **CAPACITANCE RANGE:** SEE CONFIGURATION TABLE.
   3.2. **DC WORKING VOLTAGE AT MAX. RATED CAPACITANCE:** 125 [VOLTS].
   3.3. **DC WITHSTANDING VOLTAGE AT MAX RATED CAPACITANCE:** 220 [VOLTS].
   3.4. **Q FACTOR AT 1 [MHz] AND MAX RATED CAPACITANCE:** SEE CONFIGURATION TABLE.
   3.5. **INSULATION RESISTANCE:** 10^9 [MEGAOHMS] AT 25°C.
   3.6. **TEMPERATURE COEFFICIENT:** SEE CONFIGURATION TABLE.
   3.7. **SELF RESONANT FREQUENCY MEASURED AT MAX RATED CAPACITANCE**

4. **MECHANICAL SPECIFICATIONS:**
   4.1. **TUNING TORQUE:** 0.14 [in·oz] TO 1.00 [in·oz].
   4.2. **ALL PARTS FURNISHED ON 12 [mm] TAPE AND REEL; 1000 PIECES PER REEL.**

5. **ENVIRONMENTAL:**
   5.1. **OPERATING TEMPERATURE:** -40°C TO +85°C.
   5.2. **RoHS COMPLIANT.**

6. **MISCELLANEOUS:**
   6.1. **IN ORDER TO PROVIDE THE HIGHEST LEVELS OF SERVICE, KNOWLES RESERVES THE RIGHT TO SUPPLY EQUIVALENT PRODUCTS WHERE SPECIFICATIONS ARE EQUIVALENT OR ENHANCED.**
   THIS INCLUDES SUBSTITUTION OF JZ500 TO JZ400 AND HV SUFFIX FOR STANDARDS PARTS.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>C MIN (pF)</th>
<th>C MAX (pF)</th>
<th>TC (PPM/°C)</th>
<th>Q MIN @ 1 MHz</th>
<th>MARKING COLOR</th>
<th>ALTERNATE COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>JZ030</td>
<td>1.5</td>
<td>3.0 ± 10% / 0%</td>
<td>0 ± 200</td>
<td>500</td>
<td>BLACK</td>
<td>BLACK &amp; GREEN</td>
</tr>
<tr>
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<td>2.0</td>
<td>6.0 ± 10% / 0%</td>
<td>0 ± 300</td>
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<td>BLUE</td>
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<tr>
<td>JZ100</td>
<td>3.0</td>
<td>10.0 ± 10% / 0%</td>
<td>0 ± 500</td>
<td>500</td>
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</tr>
<tr>
<td>JZ200</td>
<td>4.5</td>
<td>20.0 ± 10% / 0%</td>
<td>0 ± 500</td>
<td>500</td>
<td>RED</td>
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<tr>
<td>JZ300</td>
<td>5.5</td>
<td>30.0 ± 10% / 0%</td>
<td>1500 ± 1000</td>
<td>500</td>
<td>ORANGE</td>
<td>ORANGE &amp; GREEN</td>
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<tr>
<td>JZ400</td>
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**CONFIGURATION TABLE (SEE NOTE 6.1)**

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THIS INCLUDES SUBSTITUTION OF JZ500 TO JZ400 AND HV SUFFIX FOR STANDARDS PARTS.
HANDLING/STORAGE PRECAUTIONS:

I.- DO NOT USE FLOW SOLDERING.
II.- DO NOT APPLY SOLDER OR FLUX TO ANY PARTS BUT TERMINAL
III.- WHEN USING SOLDERING IRON, THE SOLDERING IRON SHOULD NOT COME IN CONTACT WITH THE HOUSING OF THE CAPACITOR.
IV.- PLEASE REFER TO SOLDER RECOMMENDATIONS CHART.
V.- NO-CLEAN METHOD IS PREFERRED OVER SOLVENT WASHING.
VI.- EXPERIMENT WITH SAMPLES BEFORE WASHING BY SOLVENTS.
VII.- DO NOT APPLY LOCKING SPRAY OR PAINT TO TRIMMER.
VIII.- ELECTRIC SPECIFICATIONS MAY BE AFFECTED ADVERSELY.
IX.- WHEN USING SOLDERING IRON, THE SOLDERING IRON SHOULD NOT COME IN CONTACT WITH THE HOUSING OF THE CAPACITOR.
X.- DO NOT APPLY AXIAL LOAD DURING TUNING IN EXCESS OF 0.3 lb/1.5 N.
XI.- KEEP PARTS OUT OF DIRECT SUNLIGHT EXPOSURE. STORE PARTS IN DUST-FREE ENVIRONMENT.

SOLDERING RECOMMENDATIONS

STAGE | SAC305 SOLDER | EUTECTIC SOLDER
--- | --- | ---
PRE-HEATING | TEMPERATURE: 150°C - 180°C | TEMPERATURE: 120°C - 150°C
HEATING | TEMPERATURE: 220°C | TEMPERATURE: 183°C
TIME: 60 - 120 SECONDS | TIME: 60 - 120 SECONDS
PEAK HEAT | TEMPERATURE: 265°C | TEMPERATURE: 265°C
TIME: 3 SECONDS MAX | TIME: 3 SECONDS MAX
REFLOW CYCLES | 2 TIMES MAX | 2 TIMES MAX
SOLDERING IRON | SPEC | SPEC
TEMPERATURE 400°C | TEMPERATURE 400°C
MAX | MAX
TIME: 3 SECONDS MAX | TIME: 3 SECONDS MAX