STANDARD SPECIFICATIONS:

APPLICATIONS:

- Cellular and cordless phones.
- GPS
- Mobile communication equipment.
- Portable radio equipment and music player.

FEATURES:

- Low height 1.5mm
- Low phase noise -135dBc typical / 1kHz
- Low current 1.5mA ~20MHz
- Clipped sine wave output.
- Suitable for RoHS reflow

OPTIONS & PART IDENTIFICATION:

ASVTX-09 or ASTX-09 - MHz - MHz - MHz

Supply Voltage (Vdd):
Blank: 3.0V±5%
A: 2.5V±0.1V
B: 3.3V±5%

Frequency in MHz
Please specify the frequency in MHz.
For example: 19.200MHz

Freq. Tolerance
@25°C, at shipping
Blank: ±0.5ppm
J: ±1.5ppm

Packaging
Blank: Bulk
T: Tape & Reel (1k/reel)

Table 1: Frequency Stability vs Operating Temperature

<table>
<thead>
<tr>
<th>Temperature</th>
<th>±1.0ppm</th>
<th>±1.5ppm</th>
<th>±2ppm</th>
<th>±2.5ppm</th>
<th>±3ppm</th>
<th>±4ppm</th>
<th>±5ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>0°C ~ +50°C</td>
<td>D10</td>
<td>D15</td>
<td>D20</td>
<td>D25</td>
<td>D30</td>
<td>D40</td>
<td>D50</td>
</tr>
<tr>
<td>-10°C ~ +60°C</td>
<td>E10</td>
<td>E15</td>
<td>E20</td>
<td>E25</td>
<td>E30</td>
<td>E40</td>
<td>E50</td>
</tr>
<tr>
<td>0°C ~ +70°C</td>
<td>F15</td>
<td>F20</td>
<td>F25</td>
<td>F30</td>
<td>F40</td>
<td>F50</td>
<td></td>
</tr>
<tr>
<td>-20°C ~ +75°C</td>
<td>G20</td>
<td>G25</td>
<td>G30</td>
<td>G40</td>
<td>G50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-30°C ~ +85°C</td>
<td>H20</td>
<td>Std(Blank)</td>
<td>H30</td>
<td>H40</td>
<td>H50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-40°C ~ +85°C</td>
<td>I20</td>
<td>I25</td>
<td>I30</td>
<td>I40</td>
<td>I50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
VOLTAGE CONTROLLED TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR

ASTX-09/ASVTX-09

OUTLINE DIMENSIONS:

- Tape & Reel:
  - T= tape and reel (1,000 pcs/reel)
  - Dimension : mm

- Reflow Profile:
  - Dimension : inches (mm)

Pin | Function
--- | ---
1 | Vc
2 | GND
3 | Output
4 | Vdd

Note: The outline package may vary. Electrical properties, pin configuration, and land pattern are the same.

Note: Recommend using an approximately 0.01µF bypass capacitor between PIN 2 and 4.

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.

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