DOUBLE OVEN ULTRA PRECISION OCXO MV89

**Features:**
- Frequency range 4.096 - 10.0 MHz
- Very high stability vs. temperature - up to $\pm 5 \times 10^{-11}$
- Very low aging - up to $\pm 5 \times 10^{-9}$/year
- Not sensitive for rapid changes of ambient temperature
- Ideal for GPS, CDMA, 3G applications

**ORDERING GUIDE: MV89 – B 01 E – 10.0 MHz**

<table>
<thead>
<tr>
<th>Availability of certain stability vs. operating temperature range</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>03</td>
<td>02</td>
<td>01</td>
<td>005</td>
</tr>
</tbody>
</table>

A – available, NA – not available, C – consult factory

For other temperature ranges see designation at the end of Data Sheet

**Mechanical characteristics:**
- Vibrations:
  - Frequency range 1-200 Hz
  - Acceleration 5g
- Shock:
  - Acceleration 150 g
  - Duration $\pm 1$ ms
- Storage temperature range: $-55...+80$ °C

**Package drawing:**

**ADDITIONAL NOTES:**
- Showed values of frequency stability vs. temperature usually are tested in Still Air test conditions. Please inform factory about different conditions in operation to provide appropriate tests.
- Please consult factory for daily aging values. Normally typical correspondence of daily aging per day to aging per year is as following: $\pm 5 \times 10^{-9}$/year - $\pm 5 \times 10^{-10}$/day; $\pm 3 \times 10^{-9}$/year - $\pm 3 \times 10^{-10}$/day; $\pm 2 \times 10^{-9}$/year - $\pm 2 \times 10^{-10}$/day; $\pm 1 \times 10^{-9}$/year - $\pm 1 \times 10^{-10}$/day.
- For non standard operating temperature ranges please use the following two letters designations (first letter for the lower limit, second letter for the upper limit), °C:

| A  | B  | C  | D  | E  | F  | G  | H  | J  | K  | L  | M  | N  | P  | Q  | R  | S  | T  | U  | W  | X  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| -60| -55| -50| -45| -40| -30| -20| -10| 0  | +10| +30| +40| +45| +50| +55| +60| +65| +70| +75| +80| +85|

Due to continuous development and improvement Morion, Inc. reserves the right to modify design or specifications of its products without prior notice

Revision 1. April 2012