HIGH STABILITY MINIATURE OCXO MV333M

Features:
- Short-term stability (Allan deviation): up to $5 \times 10^{-13}$
- Low phase noise options: up to -120 dBc/Hz at 1 Hz offset, up to -170 dBc/Hz at 10 kHz offset
- Long term stability: up to $\pm 2 \times 10^{-9}$/year
- RoHS compliant
- Standard frequency: 10.0 MHz

ORDERING GUIDE: MV333M – B 5 F – B16 – 10MHz – 2 – 8E-13

Package drawing:

A12.7:

B16:

Availability of certain stability vs. operating temperature range

<table>
<thead>
<tr>
<th></th>
<th>10</th>
<th>5</th>
<th>3**</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0...+55°C</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>B</td>
<td>-10...+60°C</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>GS</td>
<td>-20...+65°C</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>ES</td>
<td>-40...+65°C</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>D*</td>
<td>-40...+70°C</td>
<td>A</td>
<td>A</td>
</tr>
</tbody>
</table>

* only for package B16 and phase noise option 1
** only for package A12.7
For other temperature ranges see designation at the end of Data Sheet.

Additional notes:
- Please consult factory for daily aging values. Normally typical correspondence of daily to aging per year is as following:
  - $\pm 1 \times 10^{-7}$/day – $\pm 1 \times 10^{-9}$/year
  - $\pm 5 \times 10^{-8}$/day – $\pm 5 \times 10^{-9}$/year
  - $\pm 3 \times 10^{-9}$/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 |

Vehicle:

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

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