HIGH STABILITY FAST WARM-UP LOW POWER CONSUMPTION OCXO MV80

**Features:**
- Short warm-up time: less than 60 seconds
- Frequency stability vs. temperature: up to $\pm 2 \times 10^{-8}$
- Option with 5 V power supply
- Very low power consumption: up to 0.2 W
- Low phase noise

**ORDERING GUIDE:** MV80–C 30 H–60–SIN–12V–10.0 MHz

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**ORDERING GUIDE:**

<table>
<thead>
<tr>
<th>Availability of certain stability vs. operating temperature range</th>
<th>±1x10^-7</th>
<th>±5x10^-8</th>
<th>±1x10^-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>A 0...+55°C</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>B -10...+60°C</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>C -20...+70°C</td>
<td>A</td>
<td>A</td>
<td>C</td>
</tr>
<tr>
<td>D -40...+70°C</td>
<td>A</td>
<td>A</td>
<td>C</td>
</tr>
</tbody>
</table>

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

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

**Package drawing:**

**Ordering Guide:**

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>12 V</th>
<th>5 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output</td>
<td>SIN</td>
<td>HCMOS</td>
</tr>
</tbody>
</table>

**Short term stability (Allan deviation) per 1 sec, typical**
- $<3 \times 10^{-11}$

**Frequency stability vs. load changes**
- $<\pm 3 \times 10^{-9}$

**Frequency stability vs. power supply changes**
- $<\pm 3 \times 10^{-9}$

**Power supply (Us)**
- 5 V
- 12 V

**Output**

<table>
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<tr>
<th>Output type</th>
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<th>HCMOS</th>
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**Warm-up time within ±5x10^-7 @ 25°C**

<table>
<thead>
<tr>
<th></th>
<th>60</th>
<th>90</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>60 seconds</td>
<td>90 seconds</td>
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</table>

**Output type**

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**Power Supply**

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**Frequency range: 9.5 – 10.5 MHz**

**Standard frequency: 10.0 MHz**

**Additional notes:**
- Please consult factory for daily aging values. Normally typical correspondence of daily aging per day to aging per year is as following: $\pm 5 \times 10^{-7}$/year $\rightarrow \pm 5 \times 10^{-9}$/day; $\pm 3 \times 10^{-7}$/year $\rightarrow \pm 3 \times 10^{-9}$/day; $\pm 2 \times 10^{-7}$/year $\rightarrow \pm 2 \times 10^{-9}$/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 | +20 | +30 | +40 | +45 | +50 | +55 | +60 | +65 | +70 | +75 | +80 | +85 |