DOUBLE OVEN ULTRA PRECISION OCXO MV360

**Features:**
- High stability vs. temperature: up to $1 \times 10^{-11}$
- Standard frequency: 10.0 MHz
- Package size: 51x51x19 mm
- High long-term stability: up to $4 \times 10^{-5}$/year
- Power supply: 5 V and 12 V
- Available as RoHS
- Applications: 5G, Telecommunication, Test & Measurement

**ORDERING GUIDE: MV360–C 003 D–12V–10.0M**

<table>
<thead>
<tr>
<th>Availability of certain stability vs. operating temperature range</th>
<th>+1x10⁻⁸</th>
<th>+5x10⁻¹¹</th>
<th>+2x10⁻¹¹</th>
<th>+2x10⁻¹¹</th>
<th>+1x10⁻¹¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0...+55°C</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>B</td>
<td>-10...+60°C</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>C</td>
<td>-20...+70°C</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>D</td>
<td>-40...+70°C</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>EU</td>
<td>-40...+75°C</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>EX*</td>
<td>-40...+85°C</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
</tbody>
</table>

Upon request: up to <1x10⁻¹¹ at any 20°C window

A – available

*for 5V only (operable for 12V with <±1.25x10⁻⁸ vs. +75...+85°C, typ.)

**Supply voltage**
- 5 V
- 12 V

**Phase noise, at offset dBc/Hz**
- 1 Hz <100
- 10 Hz <130
- 100 Hz <150
- 1000 Hz <155
- 10000 Hz <155 (<160 for 12 V)

**Short term stability ( Allan deviation) per 1 sec:**
- <2x10⁻¹²

**Frequency stability vs. load changes (±5%)**
- <1x10⁻¹¹

**Frequency stability vs. power supply changes (±5%)**
- <1x10⁻¹¹

**Warm-up time within accuracy of <±5x10⁻⁸ @ 25°C**
- <15 min.

**Power supply**
- 5V±5% 12V±5%

**Steady state current consumption @ +25°C**
- <600 mA <300 mA

**Peak current consumption during warm-up**
- <2 A <1 A

**Output SIN**
- >300 mV RMS

**Load**
- 50 Ohm±5%

**Harmonic suppression**
- >30 dBc

**Vibrations:**
- Frequency range 10-200 Hz
- Acceleration 5 g
- Shock: 75 g / 3±1 ms
- Humidity @ 25°C 98%
- Storage temperature range -55...+85°C

**Additional notes:**
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 |