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 for 0…+55 °C
- B for -10…+60 °C
- C for -20…+70 °C


Features:
- Standard frequencies: 5.0 MHz and 10.0 MHz
- Short term stability (Allan deviation): up to ±3x10⁻¹¹ per 1 sec
- Stability vs. temperature: up to ±2x10⁻¹¹
- High long-term stability: up to ±1x10⁻⁸/year
- Ultra low phase noise level close to the carrier
- Power supply: 12 V
- Available as RoHS
- Analog, digital or no frequency control

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 – available, C – consult factory

Frequency adjustment type

| A | analog |
| D | digital |
| - | no frequency control |

Available of certain aging values:

- F: ±5x10⁻⁹/year
- E: ±3x10⁻⁹/year
- D: ±2x10⁻⁹/year
- C: ±1x10⁻⁹/year

Phase noise, dBc/Hz:

<table>
<thead>
<tr>
<th>Standard frequency</th>
<th>10 MHz</th>
<th>5 MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>0.1 Hz</td>
<td>&lt; -80</td>
<td>&lt; -85</td>
</tr>
<tr>
<td>1 Hz</td>
<td>&lt; -113</td>
<td>&lt; -116</td>
</tr>
<tr>
<td>10 Hz</td>
<td>&lt; -143</td>
<td>&lt; -144</td>
</tr>
<tr>
<td>100 Hz</td>
<td>&lt; -154</td>
<td>&lt; -156</td>
</tr>
<tr>
<td>1000 Hz</td>
<td>&lt; -160</td>
<td>&lt; -160</td>
</tr>
<tr>
<td>10000 Hz</td>
<td>&lt; -160</td>
<td>&lt; -160</td>
</tr>
</tbody>
</table>

Short term stability (Allan deviation):

- Per 1 sec
- Per 10 sec (option)
- Per 100 sec (option)

For 10 MHz only

- Frequency stability vs. load changes (±5%): < ±2x10⁻¹¹
- Frequency stability vs. supply power changes (±1%): < ±2x10⁻¹¹
- Warm-up time within accuracy of < ±5x10⁻⁸ @ 25°C: < 14 min
- Power supply (Uₜ): 12 V ± 1%
- Steady state current consumption @ ±25°C (“still air”): < 650 mA
- Peak current consumption during warm-up: < 1600 mA

Vibrations:

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

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

Revision 17. May 2020