HIGH FREQUENCY LOW PHASE NOISE OCXO MV87

Features:
- Frequency range: 48.0–120.0 MHz without internal multiplication
- Low phase noise: floor of <167 dBc/Hz
- High stability vs. temperature: up to ±5x10⁻⁹
- Low harmonics and sub-harmonics (optional)
- SMA output (optional)
- Low profile – just 12.7 mm height
- Ideal for PLL, VSAT, Frequency synthesizers

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   | V   | W   | X   |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| -60| -55 | -50 | -45 | -40 | -30 | -20 | -10 | 0   | +10 | +30 | +40 | +45 | +50 | +55 | +60 | +65 | +70 | +75 | +80 | +85 |

ORDERING GUIDE: MV87–B 300 J–3–100.0 MHz–F

Phase noise, dBC/Hz
(for 100.0 & 500.0 MHz)

<table>
<thead>
<tr>
<th>Option</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freq.</td>
<td>-85</td>
<td>-70</td>
<td>-90</td>
<td>-75</td>
<td>-95</td>
<td>-80</td>
</tr>
<tr>
<td>10 Hz</td>
<td>-115</td>
<td>-100</td>
<td>-120</td>
<td>-105</td>
<td>-125</td>
<td>-110</td>
</tr>
<tr>
<td>100 Hz</td>
<td>-140</td>
<td>-125</td>
<td>-145</td>
<td>-130</td>
<td>-150</td>
<td>-135</td>
</tr>
</tbody>
</table>

Frequency pulling range > ±3x10⁻⁶ with external control voltage range (Uin) 0…+8 V
Reference voltage (Uref) +8 V

Steady state current consumption @ 25°C (still air) < 450 mA
Peak current consumption during warm-up < 450 mA
Power supply (Us) 12V±10%
Warm-up time with accuracy of <±2x10⁻⁶ at +25°C < 5 min
Frequency stability vs. load changes < ±5x10⁻⁸
Frequency stability vs. power supply changes < ±5x10⁻⁸

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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