MINIATURE HIGH FREQUENCY PRECISION LOW PHASE NOISE OCXO MV269M

Features:
- Small package size 21x13x9.5 mm (DIL 14)
- Low Phase Noise <180 dBc/Hz @ 100 kHz offset
- Frequency: 100.0 MHz

ORDERING GUIDE: MV269M–C 100 J–SIN–2–100.0MHz

<table>
<thead>
<tr>
<th>Output signal</th>
<th>SIN</th>
<th>HCMOS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase noise for 100 MHz, dBc/Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>10 Hz</td>
<td>&lt;95</td>
<td>&lt;98</td>
</tr>
<tr>
<td>100 Hz</td>
<td>&lt;127</td>
<td>&lt;130</td>
</tr>
<tr>
<td>1000 Hz</td>
<td>&lt;157</td>
<td>&lt;160</td>
</tr>
<tr>
<td>10000 Hz</td>
<td>&lt;172</td>
<td>&lt;172</td>
</tr>
<tr>
<td>100000 Hz</td>
<td>&lt;174</td>
<td>&lt;176</td>
</tr>
</tbody>
</table>

* SIN only

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

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Control voltage input</td>
</tr>
<tr>
<td>2</td>
<td>Ground (case)</td>
</tr>
<tr>
<td>3</td>
<td>RF output</td>
</tr>
<tr>
<td>4</td>
<td>Power Supply</td>
</tr>
</tbody>
</table>

Shock:
- Acceleration: 100 g
- Storage temperature range: -55…+85 °C

Vibrations:
- Frequency range: 10-2000 Hz
- Acceleration: 5 g

Power supply (Us)
- 5 V ± 5 %

Steady state current consumption
- @ 25°C < 250 mA

Peak current consumption during warm-up @ 25°C < 500 mA

Frequency pulling range
- ≥2x10⁻⁶ with external control voltage range 0…+4.5 V
- Slope positive

Input impedance
- 100 kOhm

Frequency stability vs. load changes
- <2x10⁻⁸

Frequency stability vs. power supply changes
- <4x10⁻⁸

Warm-up time within accuracy of <2x10⁻⁷ @ 25°C +2x10⁻⁷, min < 2

Output signal
- HCMOS | SIN

Level
- Logical «1» ≥3.6 V
- Logical «0» <0.4 V

Load
- Pls see 2) 50 Ohm

Harmonics
- < -30dB

1) sufficient to compensate aging during life time
2) corresponds to IC NC7SZU04

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