EXTREME ENVIRONMENT
SMD HIGH-TEMPERATURE PACKAGED CRYSTAL OSCILLATORS

FMOCHT SW SERIES
Ultra Low Power
Miniature Real-time Clock
Crystal Oscillator

- 32.768 kHz
- Ultra Low Power (1.5µA @ +3.3V)
- 3.2 x 2.5 mm SMD
- -55°C to +150°C
- +1.8 to +5.5V

SPECIFICATIONS

Parameter | Specification
---|---
Frequency Range | 32.768 kHz
Temperature Range | Frequency Stability
-20°C to +70°C | -90ppm to +10ppm
-40°C to +85°C | -140ppm to +10ppm
-55°C to +125°C | -360ppm to +25ppm
-55°C to +150°C | -600ppm to +25ppm

at +25°C (+3.3V) | +5ppm to ±20ppm

Operating Temperature | -40°C to +85°C standard; available: -55°C to +150°C
Storage Temperature | 65°C to +150°C
Supply Voltage (Vdd) | +3.3 Vdc ±10% or +5.0Vdc (option: +1.8V to +5.5V)
Input Current | 2.8 µA max @ +3.3V
Logic | CMOS
Rise & Fall Time | 200 ns max
Symmetry (Duty Cycle) | 40/60%
Tri-State Control: | Output "0" Level
Output "1" Level or Open
Oscillation
Start-up Time | 1000 ms max @ +3.3V @ +25°C
Hi-Rel Screening Available / Tested in compliance with MIL-PRF-55310

SHOCK & VIBRATION
Shock: 500g, 0.5 msec, half sine, 3-axis
Vibration: 10g, 20 Hz to 2 kHz Random
(note: other profiles available, please inquire)

Current (µA) Variation vs. Voltage, over 1K Hours Life Test at +150°C

STANDARD MARKING
32K768
FMI YYWW
XXXXX FREQUENCY in kHz

PIN FUNCTION TABLE

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Output Enable</td>
<td>2</td>
<td>Case Ground</td>
</tr>
<tr>
<td>3</td>
<td>Output</td>
<td>4</td>
<td>Supply Voltage (Vdd)</td>
</tr>
</tbody>
</table>

Dimensions: mm

Please contact us for part numbers, how to order, additional product specifications or with your custom requirements

Frequency Management International
1-800-800-XTAL
www.fmi-inc.com