

Part No. + Packaging: LFMCXO064081Bulk



## Description

Microcomputer Compensated Crystal Oscillator with voltage control (MCXO)

8 pad package

Model IQMT-100-4-B

Model Issue number

#### **Frequency Parameters**

■ Frequency 10.0MHz■ Frequency Tolerance ±0.50ppm

Tolerance Condition
 @ 25°C, 3.3V & VC=1.65V

■ Frequency Stability ±0.05ppm
 ■ Operating Temperature Range 40.00 to 85.00°C
 ■ Ageing ±0.02ppm max per day, ±1.0ppm max per year

 Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and within 30 days after ex-works)

 Frequency Stability: TA varied over temperature, measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V, load=10kΩ//10pF and temperature variable speed less than 2°C per minute.

 Ageing: TA=25°C, Vs=3.3V, VC=1.65V and after 1hr of operation.

 Supply Voltage Variation (measurement referenced to frequency observed with TA=25°C, Vs varied from 3.13V to 3.47V, VC =1.65V and load=10kΩ//10pF): ±0.05ppm max

 Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and load=10kΩ//10pF): ±0.1ppm max

 Short Term Stability (@ 25°C after 10mins power on): 2E-10/s typ @ 10MHz

# **Electrical Parameters**

■ Supply Voltage 3.3V ±5%
■ Current Draw 10.000mA

Current: TA=25°C, Vs=3.3V, VC=1.65V and load=10kΩ//10pF

# **Frequency Adjustment**

Pulling ±10ppm to ±15ppm
 Control Voltage 1.65V ±1.65V

Linearity: ±10% maxSlope: Positive

Input Impedance: 100kΩ min

# **Output Details**

■ Output Compatibility Clipped Sine■ Drive Capability 10kΩ//10pF

Output Level: 0.8V pk-pk min

### **Noise Parameters**

Phase Noise (@ 10MHz typ):

-90dBc/Hz @ 10Hz

-115dBc/Hz @ 100Hz

-135dBc/Hz @ 1kHz

-145dBc/Hz @ 10kHz

-148dBc/Hz @ 100kHz

-150dBc/Hz @ 1MHz

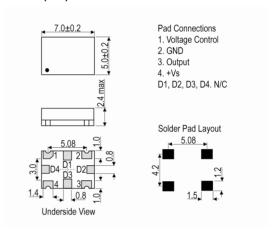
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#### Outline (mm)



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## **Environmental Parameters**

- Storage Temperature Range: -55 to 105°C
- ESD Level:

HBM, Class 2: 2000V to 4000V, JEDEC JS-001-2010 Machine Model, Class B: 200V to 400V, JEDEC JS-001-2010

- Shock: IEC 60068-2-27, Test Ea: 100G acceleration for 6ms, half sinewave, in 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6, Test Fc: 10Hz-2000Hz, 0.75mm amplitude, 10G acceleration, 30mins per cycle, in 3 mutually perpendicular planes, test duration 2hrs

# **Manufacturing Details**

- Moisture Sensitivity Level: 2
- Maximum Reflow Temperature: 260°C (30secs max)

## Compliance

RoHS Status (2011/65/EU) CompliantREACh Status Compliant

MSL Rating (JDEC-STD-033):

# **Packaging Details**

 Pack Style: Bulk Loose in bulk pack Pack Size: 1

Alternative packing option available

**Sales Office Contact Details:** 

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