





Customer Part:

Description

 Microcomputer Compensated Crystal Oscillator with voltage control (MCXO)

8 pad package

■ Model IQMT-100-3-B

Model Issue number 1

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 Fref = (Fmax-Fmin)/2, Vs=3.3V, VC=1.65V, load=15pF 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=15pF): ±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=15pF): ±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=15pF

Frequency Adjustment

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

Linearity: ±10% max

Slope: Positive

Input Impedance: 100kΩ min

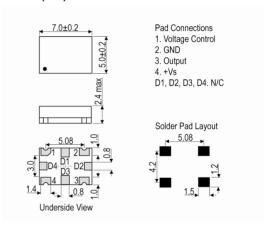
Output Details

Output Compatibility HCMOS
Drive Capability 15pF
Rise and Fall Time 8.0ns max
Duty Cycle 45/55%
Output Low (@ Vs=3.3V, load=15pF): 0.4V max
Output High (@ Vs=3.3V, load=15pF): 2.4V min





Outline (mm)



Sales Office Contact Details:

UK: +44 (0)1460 270200 France: 0800 901 383 Germany: 0800 1808 443 USA: +1.760.318.2824 Email: info@iqdfrequencyproducts.com Web: www.iqdfrequencyproducts.com





Part No. + Packaging: LFMCXO064077Bulk

Customer Part:

Noise Parameters

- Phase Noise (@ 10MHz typ):
 - -90dBc/Hz @ 10Hz
 - -115dBc/Hz @ 100Hz
 - -135dBc/Hz @ 1kHz
 - -145dBc/Hz @ 10kHz
 - -148dBc/Hz @ 100kHz
 - -150dBc/Hz @ 1MHz

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

Maximum Reflow Temperature: 260°C (30secs max)

Compliance

RoHS Status (2015/863/EU) CompliantREACh Status Compliant

MSL Rating (JDEC-STD-033): 2

Packaging Details

Pack Style: Bulk Loose in bulk pack

Pack Size: 1

Alternative packing option available

Sales Office Contact Details:

UK: +44 (0)1460 270200 Germany: 0800 1808 443 France: 0800 901 383 USA: +1.760.318.2824 Email: info@iqdfrequencyproducts.com Web: www.iqdfrequencyproducts.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Standard Clock Oscillators category:

Click to view products by IQD manufacturer:

Other Similar products are found below:

601252 F335-25 F535L-33.333 F535L-50 ECS-2018-160-BN-TR MXO45HS-2C-66.6666MHZ SiT1602BI-22-33E-50.000000E SiT8209AI-32-33E-125.000000 SIT8918AA-11-33S-50.000000G SM4420TEV-40.0M-T1K F335-24 F335-40 F535L-10 F535L-12 F535L-16 F535L-24 F535L-27 F535L-48 PE7744DW-100.0M CSX-750FCC14745600T ASF1-3.686MHZ-N-K-S XO57CTECNA3M6864 ECS-2100A-147.4 601251 EP16E7E2H26.000MTR SIT8918AA-11-33S-16.000000G XO3003 9120AC-2D2-33E212.500000 9102AI-243N25E100.000000 8208AC-82-18E-25.00000 ASDK2-32.768KHZ-LR-T3 8008AI-72-XXE-24.545454E 8004AC-13-33E-133.33000X AS-4.9152-16-SMD-TR ASFL1-48.000MHZ-LC-T SIT8920AM-31-33E-25.0000 DSC1028DI2-019.2000 9121AC-2C3-25E100.00000 9102AI-233N33E100.00000X 9102AI-233N25E200.00000 9102AI-232H25S125.00000 9102AI-133N25E200.00000 9102AC-283N25E200.00000 9001AC-33-33E1-30.000 3921AI-2CF-33NZ125.000000 5730-1SF PXA000010 8003AI-12-33S-40.00000Y 1602BI-13-33S-19.2000000E 8208AI-2F-18E-25.000000X