



Description

- Microcomputer Compensated Crystal Oscillator with voltage control (MCXO)
- Model: IQMT-100-4-B
- Model Issue number: 1

Frequency Parameters

- Frequency: 19.20MHz
- Frequency Tolerance @ 25°C: ±0.50ppm
- Frequency Stability: ±0.05ppm
- Operating Temperature Range: -40.00 to 85.00°C
- Ageing: ±0.02ppm max per day, ±1ppm max per year
- 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): ±0.1ppm 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
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and within 30 days after ex-works): ±0.5ppm
- Short Term Stability (@ 25°C after 10mins power on): 2E-10/s typ @ 10MHz
- Frequency Stability: TA varied from -40°C to 85°C, 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.

Electrical Parameters

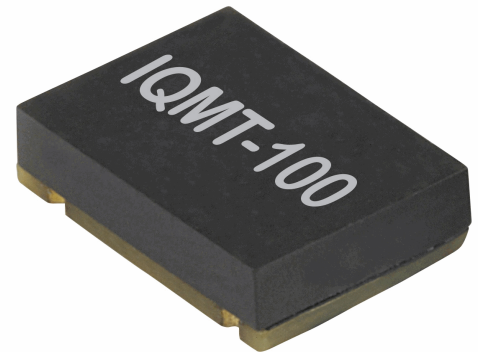
- Supply Voltage: 3.3V
- Supply Voltage Tolerance: ±5%
- Current Draw: 10.00mA max
- Current: TA=25°C, Vs=3.3V, VC=1.65V and load=10kΩ//10pF

Frequency Adjustment

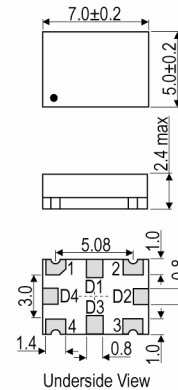
- Pulling: ±10ppm to ±15ppm
- Control Voltage Details: 1.65V ±1.65V
- Linearity: ±10% max
- Input Impedance: 100kΩ min
- Slope: Positive

Output Details

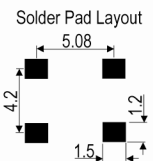
- Output Compatibility: Clipped Sine
- Output Load: 10kΩ//10pF
- Output Level: 0.8V pk-pk min
- Phase Noise (@ 10MHz typ):
 - 90dBc/Hz @ 10Hz
 - 115dBc/Hz @ 100Hz
 - 135dBc/Hz @ 1kHz
 - 145dBc/Hz @ 10kHz
 - 148dBc/Hz @ 100kHz
 - 150dBc/Hz @ 1MHz



Outline (mm)



- Pad Connections
- Voltage Control
 - GND
 - Output
 - +Vs
- D1, D2, D3, D4. N/C



Sales Office Contact Details:

UK: +44 (0)1460 270200

Germany: +49 (0) 30 408 192 300

France: +33 (0)5 34 50 91 18

USA: +1 408.273.4530

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

