

Customer Part:

Description

- Voltage Controlled Temperature Compensated Crystal Oscillator (TVXO)
- Model IQXT-200-45
- Model Issue number 1

Frequency Parameters

- Frequency 10.0MHz
- Frequency Tolerance ± 1.00 ppm
- Frequency Stability ± 0.10 ppm
- Operating Temperature Range -40.00 to 105.00°C
- Ageing ± 0.01 ppm max per day, ± 1 ppm max/year
- Frequency Tolerance (measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V within 30 days after ex-works)
- Frequency Stability: TA varied across the operating temperature range, measurement referenced to frequency observed with TA=25°C, 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): ± 0.05 ppm max
- Load Variation (5% load change measurement referenced to frequency observed with TA=25°C, Vs=3.3V, VC=1.65V and load=15pF): ± 0.05 ppm max

Electrical Parameters

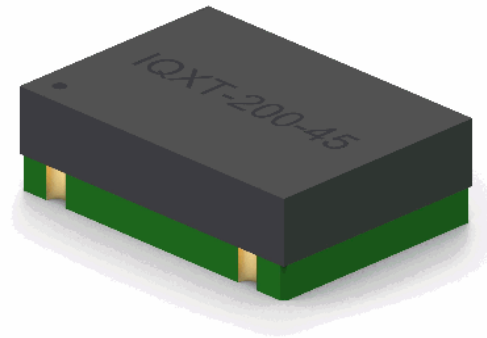
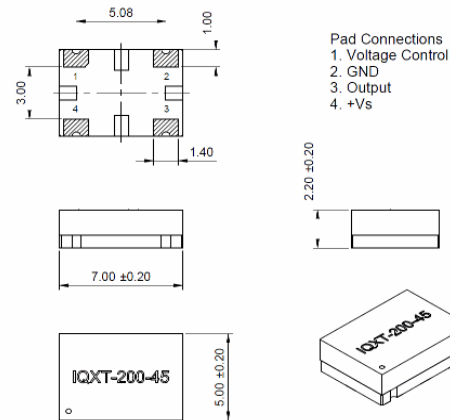
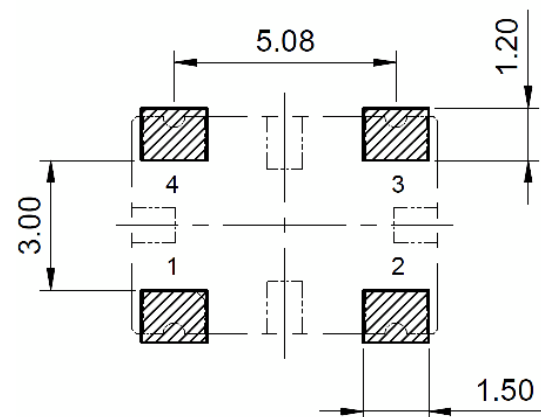
- Supply Voltage 3.3V $\pm 5\%$
- Current Draw 10.000mA max
- Current: @ TA=25°C, Vs=3.3V, VC=1.65V and load=15pF

Frequency Adjustment

- Pulling ± 8 ppm min
- Control Voltage 1.65V ± 1.65 V
- Input Impedance 100k Ω min
- Linearity: $\pm 10\%$ max
- Slope: Positive

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF
- Rise and Fall Time 5.0ns max
- Duty Cycle 45/55% max
- Output Voltage Levels (@ Vs=3.3V and load=15pF):
Output Low (VoL): 0.4V max
Output High (VoH): 2.4V min


Outline (mm)

Recommended Solder Pad Layout

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