

ISSUE 2; November 2021

Description

- A temperature compensated crystal oscillator with voltage control in a hermetically sealed surface mount package

Frequency Parameters

- Frequency: 10.0MHz to 52.0MHz
- Frequency Tolerance: $\pm 2.50\text{ppm}$
- Tolerance Condition: @ 25°C $\pm 2^\circ\text{C}$
- Frequency Stability: $\pm 1.00\text{ppm}$ to $\pm 2.50\text{ppm}$
- Ageing: $\pm 1\text{ppm}$ max per year @ 25°C
- Supply Voltage Variation ($\pm 5\%$ change): $\pm 0.2\text{ppm}$
- Load Variation ($\pm 5\%$ change): $\pm 0.2\text{ppm}$

Electrical Parameters

- Supply Voltage Options ($\pm 5\%$): 1.8V, 2.5V, 2.8V, 3.0V & 3.3V

Frequency Adjustment

- Pulling: $\pm 5\text{ppm}$ min
- Control Voltage: 50%Vs $\pm 50\%$ Vs

Operating Temperature Ranges

- 30 to 85°C

Output Details

- Output Compatibility: Clipped Sine
- Drive Capability: 10k Ω //10pF
- Output Voltage Level: 0.8V pk-pk min

Environmental Parameters

- Storage Temperature Range: -40 to 85°C
- Drop: JIS-C-6701: 75cm drop (3 times) onto hard wooden board
- Vibration: MIL-STD-883, Method 2007.2: 20G (20Hz-2000Hz), 1.5mm amplitude, in 3 mutually perpendicular planes, 4mins for each cycle

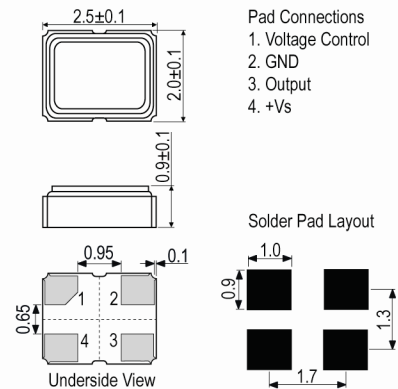
Ordering Information

- Frequency*
- Model*
- Output
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage*
- Frequency Adjustment (minimum required*)
- Example
16.0MHz IQXT-194-1
Clipped Sine $\pm 2.5\text{ppm}$ -30 to 85C 3.3V $\pm 5\text{ppm}$ min

Compliance

- RoHS Status (2015/863/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Outline (mm)



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Packaging Details

- Pack Style: Cutt In tape cut from a reel
Pack Size: 100
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 3,000

Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
10.0MHz	52.0MHz	-30 to 85	±1.0	2	-	-

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