

ISSUE 1; April 2016

Description

- Temperature Compensated Crystal Oscillator (TCXO) in a ceramic package with a metal lid.

Frequency Parameters

- Frequency: 13.0MHz to 52.0MHz
- Frequency Tolerance: $\pm 2.00\text{ppm}$
- Tolerance Condition: @ 25°C, 1hr after reflow.
- Frequency Stability: $\pm 0.50\text{ppm}$ to $\pm 2.00\text{ppm}$
- Ageing: $\pm 1\text{ppm}$ max 1st year @ 25°C.
- Supply Voltage Variation (@ $\pm 5\%$ change): $\pm 0.2\text{ppm}$ max
- Load Variation (@ $\pm 10\%$ change): $\pm 0.2\text{ppm}$ max

Electrical Parameters

- Supply Voltage: 1.8V $\pm 5\%$

Operating Temperature Ranges

- 10 to 75°C
- 20 to 80°C
- 30 to 85°C

Output Details

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

Environmental Parameters

- Storage Temperature Range: -40 to 85°C

Ordering Information

- Frequency*
- Model*
- Output
- Frequency Stability*
- Operating Temperature Range*
- Supply Voltage
- (*minimum required)
- Example
13.0MHz IQXT-291
Clipped Sine $\pm 2.0\text{ppm}$ -30 to 85C 1.8V

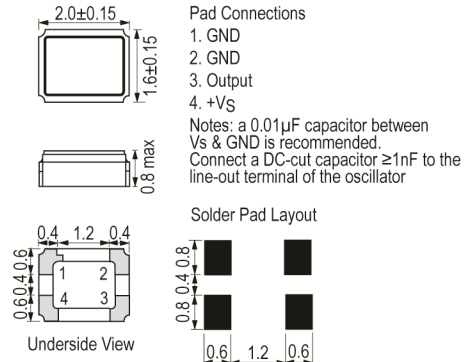
Compliance

- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): 1

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
- Pack Size: 2,000

Outline (mm)



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Electrical Specification - maximum limiting values 1.8V \pm 5%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
13.0MHz	52.0MHz	-10 to 75	\pm 0.5	2	-	-
		-20 to 80	\pm 0.5	2	-	-
		-30 to 85	\pm 0.5	2	-	-

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