

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 per 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: 2.8V  $\pm 5\%$

**Operating Temperature Ranges**

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

**Output Details**

- Output Compatibility: Clipped Sine
- Drive Capability: 10k $\Omega$ //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-282  
Clipped Sine  $\pm 2.0\text{ppm}$  -30 to 85C 2.8V

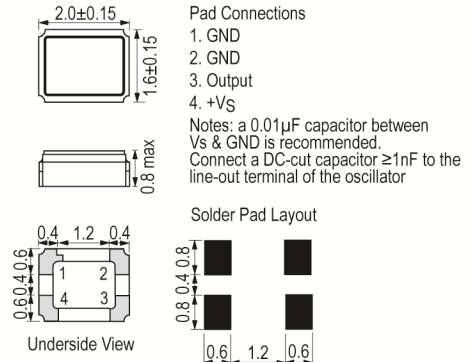
**Compliance**

- 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: 1,000

**Outline (mm)**



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Electrical Specification - maximum limiting values 2.8V  $\pm$ 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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