

ISSUE 1; June 2018

Description

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



Frequency Parameters

- Frequency: 12.0MHz to 40.0MHz
- Frequency Tolerance: ± 2.00 ppm
- Frequency Stability: ± 0.50 ppm to ± 2.50 ppm
- Ageing: ± 1 ppm in first year
- Developed frequencies: 12, 16.368, 19.2, 20, 24, 26, 30, 32 & 40MHz
- Supply Voltage Coefficient ($V_s \pm 5\%$): ± 0.3 ppm max
- Load Coefficient ($\pm 10\%$): ± 0.2 ppm max
- Frequency Change after Reflow Soldering (x2): ± 2 ppm max

Electrical Parameters

- Supply Voltage: 2.8V $\pm 5\%$

Operating Temperature Ranges

- 30 to 85°C

Output Details

- Output Compatibility: Clipped Sine
- Drive Capability: 10kohms // 10pF
- Output Voltage Level: 0.8Vpk-pk min

Noise Parameters

- Phase Noise (Typical at 26MHz):

Offset	dBc/Hz
10Hz	-86
100Hz	-110
1kHz	-133
10kHz	-148
100kHz	-152

Environmental Parameters

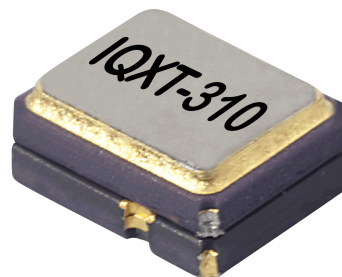
- Storage Temperature Range: -40 to 85°C
- Vibration (Random, 20 - 2000Hz 0.053G²/Hz 15mins in each of three mutually perpendicular axis)
- Drop: test parts fixed to a dummy load with 120g weight, drop height of 1.5m onto concrete, 3 times each side (18 times total)

Compliance

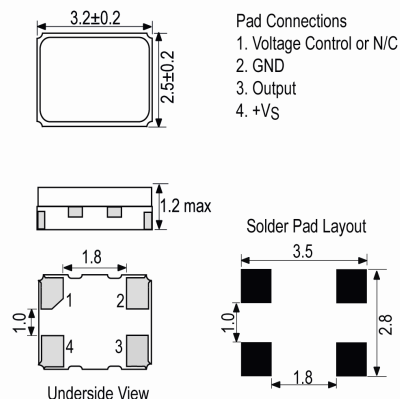
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Bulk: Loose in bulk pack
Pack Size: 1
- Pack Style: Reel: Tape and reel in accordance with
Pack Size: 1,000: EIA-481-D



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	%
12.0MHz	40.0MHz	-30 to 85	\pm 0.5	1.5	-	-

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