



## Description

- Surface mount temperature compensated crystal oscillator (TCXO) providing a high degree of frequency stability over a wide temperature in a hermetically sealed ceramic package and is suitable for GPS applications
- Model: CFPT-127
- Model Issue number: 5

## Frequency Parameters

- Frequency: 26.0MHz
- Frequency Stability:  $\pm 0.50$ ppm
- Operating Temperature Range: -40.00 to 85.00°C
- Ageing:  $\pm 1$ ppm typical in 1st year @25°C

## Electrical Parameters

- Supply Voltage: 3.0V  $\pm 10\%$
- Current Draw (Typical): 2mA @ 20MHz
- Supply Voltage Variation:  $\pm 0.2$ ppm
- Load Variation:  $\pm 0.2$ ppm (10k $\Omega$  // 10pF)  
After Reflow:  $\pm 1.0$ ppm

## Output Details

- Output Compatibility: Clipped Sine
- Drive Capability: 10k $\Omega$  // 10pF
- Output Waveform: 0.8 Vpk-pk min, DC-Coupled

## Environmental Parameters

- Shock: IEC 60068-2-27, Test Ea: 980m/s<sup>2</sup> acceleration for 6ms, 3 shocks in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6, Test Fc, Procedure B4: 10Hz-60Hz 1.5mm displacement, 60-2000Hz at 98.1m/s<sup>2</sup>, 30mins in 3 mutually perpendicular planes at 1 oct/min
- Solderability: MIL-STD-202, Method 208, Category 3
- Storage Temperature Range: -55 to 125°C

## Manufacturing Details

- Soldering: Suitable for Convection Reflow soldering. Peak temperature 260°C for 10sec max
- Washing: Able to withstand aqueous washing

## Compliance

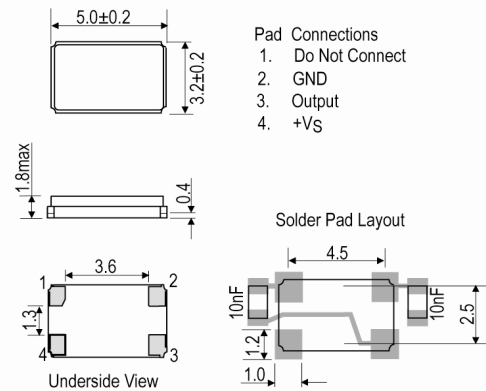
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

## Packaging Details

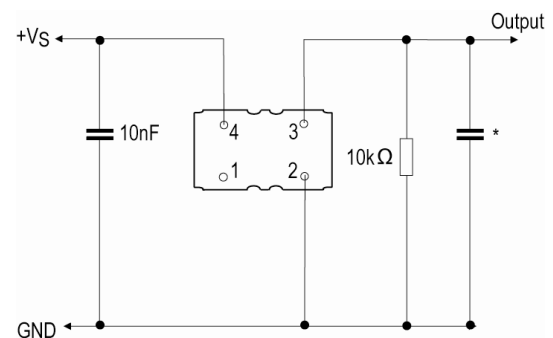
- Pack Style: Bulk Loose in bulk pack  
Pack Size: 100
- Alternative packing option available



## Outline (mm)



## Test Circuit



\*10k  $\Omega$  // 10pF (Clipped Sinewave), inclusive of probe and jig capacitance.

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