


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 $\pm 0.50\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 1\text{ppm}$ typical in 1st year @ 25°C

Electrical Parameters

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

Output Details

- Output Compatibility Clipped Sine
- Drive Capability $10\text{k}\Omega$ // 10pF
- Output Waveform: $0.8\text{V}_{\text{pk-pk}}$ min, DC-Coupled

Environmental Parameters

- Shock: IEC 60068-2-27, Test Ea: 980m/s^2 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^2 , 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

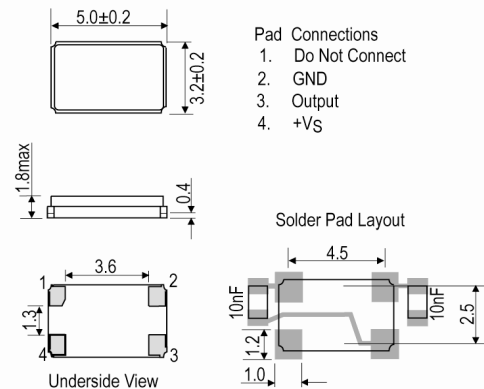
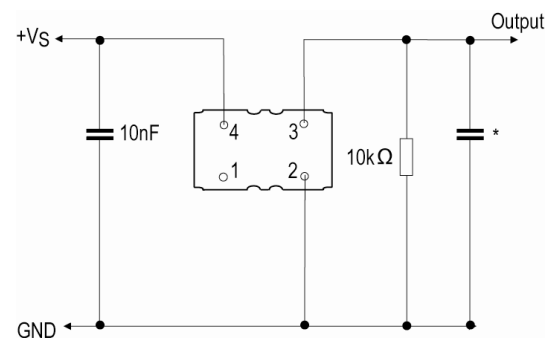
- Soldering: Suitable for Convection Reflow soldering. Peak temperature 260°C for 10sec max
- Washing: Able to withstand aqueous washing

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


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

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