

**Customer Part:**

**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  $85.00^{\circ}\text{C}$
- Ageing  $\pm 1$ ppm typical in 1st year @ $25^{\circ}\text{C}$

**Electrical Parameters**

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

**Output Details**

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

**Environmental Parameters**

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

**Manufacturing Details**

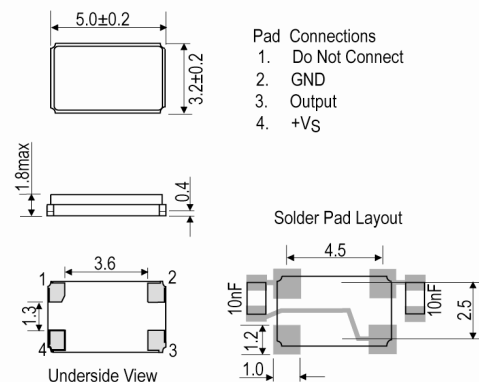
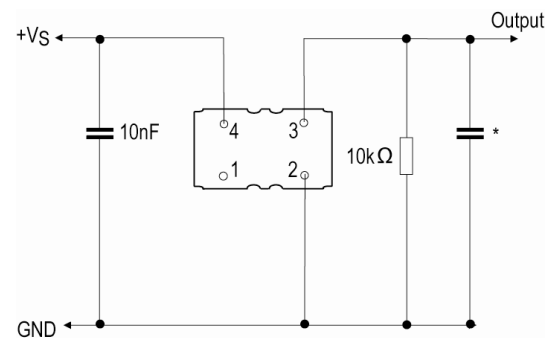
- Soldering: Suitable for Convection Reflow soldering. Peak temperature  $260^{\circ}\text{C}$  for 10sec max
- Washing: Able to withstand aqueous washing
- RoHS Terminations NiCoAu
- RoHS Reflow Temp  $260\text{degC}$  10s

**Compliance**

- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): 3

**Packaging Details**

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


**Outline (mm)**

**Test Circuit**


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

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