

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 ± 0.50 ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ± 1 ppm typical in 1st year @ 25°C

Electrical Parameters

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

Output Details

- Output Compatibility Clipped Sine
- Drive Capability $10\text{k}\Omega // 10\text{pF}$
- Output Waveform: 0.8 Vpk-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: $10\text{Hz}-60\text{Hz}$ 1.5mm displacement, $60-2000\text{Hz}$ 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

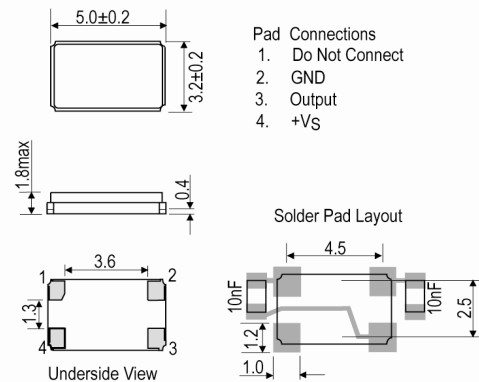
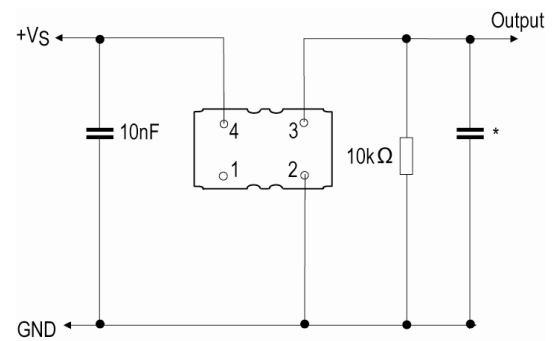
- Soldering: Suitable for Convection Reflow soldering. Peak temperature 260°C for 10sec max
- Washing: Able to withstand aqueous washing
- RoHS Terminations NiCoAu
- RoHS Reflow Temp 260degC 10s

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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