

CFPT-127 SMD TCXO

ISSUE 4; 1 NOVEMBER 2008 - RoHS 2002/95/EC

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

Package Outline

- 5 x 3.2mm

Standard Frequencies

- 16.32, 16.8, 19.2, 24.5535, 26, 33.6MHz
Other frequencies may be available, please contact our sales office.

Output Compatibility & Load

- Clipped Sinewave DC-Coupled, 0.8 V_{pk-pk} min
- 10k Ω // 10pF

Frequency Stability

- ± 0.5 ppm (code E)

Supply Voltage Variation

- ± 0.2 ppm

Load Variation

- ± 0.2 ppm (10k Ω // 10pF)

After Reflow

- ± 1.0 ppm

Operating Temperature Range

- -40 to 85°C (code X)

Storage Temperature Range

- -55 to 125°C

Supply Voltage

- 3V $\pm$ 10%

Supply Current

- 2mA @ 20MHz typical

Ageing

- ± 1 ppm typical in 1st year @ 25°C

Environmental

- Vibration: IEC 60068-2-6 Test Fc Procedure B4, 10-60Hz 1.5mm displacement, at 98.1 m/s², 30 minutes in each of three mutually perpendicular planes at 1 octave per minute
- Shock: IEC 60068-2-27 Test Ea, 980 m/s² acceleration for 6ms duration, 3 shocks in each direction along three mutually perpendicular planes
- Solderability: MIL-STD-202, Method 208, Category 3

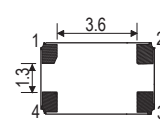
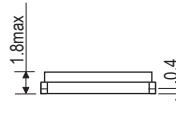
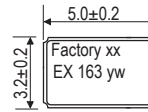
Marking Includes

- Batch Code + Stab/Temp Code + Frequency Code + Date Code

Packaging

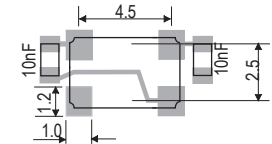
- Bulk or Tape & Reel

Outline (mm)

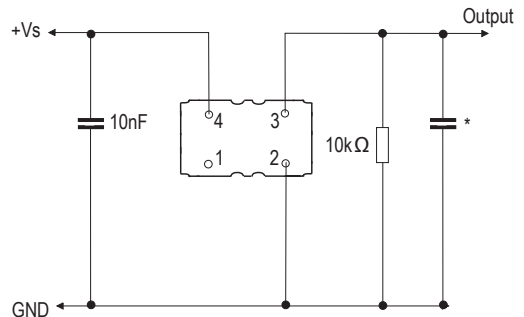


Pad Function

1. Do Not Connect
2. GND
3. Output
4. +Vs



Test Circuit



*10K Ω // 10pF (Clipped Sinewave), inclusive of probe and jig capacitance.

Minimum Ordering Information Required

- Frequency + Model Number (Example 24.5535MHz CFPT-127)

Manufacturing Information

- Soldering: SMD product suitable for Convection Reflow soldering. Peak temperature 260°C. Maximum time above 220°C, 60 secs.
- Washing: Able to withstand aqueous washing process.