

CFPT-127 SMD TCXO

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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

Standard Frequencies

- 16.32, 16.8, 19.2, 24.5535, 26, 33.6MHz (other frequencies may be available, please contact our sales offices)

Output Compatibility & Load

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

Supply Voltage

- 3V±10%

Supply Current

- 2mA @ 20MHz typical

Frequency Stability

- ±0.5ppm

Supply Voltage Variation

- ±0.2ppm

Load Variation

- ±0.2ppm (10kΩ // 10pF)

After Reflow

- ±1.0ppm

Ageing

- ±1ppm typ in 1st year @ 25°C

Operating Temperature Range

- 40 to 85°C

Storage Temperature Range

- 55 to 125°C

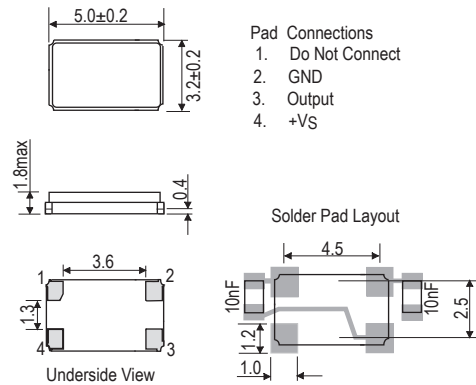
Environmental

- Shock: IEC 60068-2-27, Test Ea: 980m/s² 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/s², 30mins in 3 mutually perpendicular planes at 1 oct/min
- Solderability: MIL-STD-202, Method 208, Category 3

Manufacturing Information

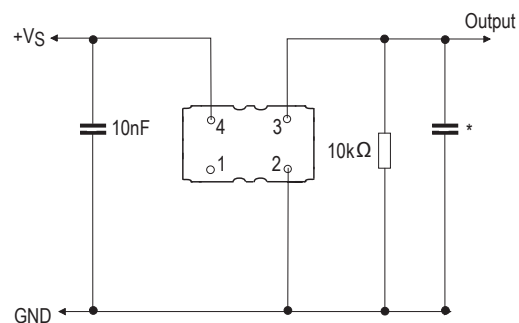
- Soldering: Suitable for Convection Reflow soldering. Peak temperature 260°C for 10sec max
- Washing: Able to withstand aqueous washing

Outline (mm)



- Pad Connections
- Do Not Connect
 - GND
 - Output
 - +VS

Test Circuit



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

Packaging

- Loose in bulk pack, 100pcs per pack
- Tape and reel in accordance with EIA-481-D, 1kpcs per reel (please see pages 372 & 373)

Ordering Information (*minimum required)

- Frequency*
- Model*
- Output
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage

Example

- 26.0MHz CFPT-127
Clipped Sine ±0.5ppm -40 to 85C 3V