

Oscillator Specification

Model: CFPT-69

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Description

 Surface mount temperature compensated crystal oscillator (TCXO) in a miniature ceramic package

Frequency Range

■ Frequency 13.000 to 38.400MHz

Supply Voltage

■ Voltage 3.0V ±5%
■ Frequency Tolerance ±2.0ppm

Ageing

■ Ageing ±1ppm max per year @ 25°C ±2° C

Output Compatibility & Load

Output Compatibility Clipped Sine

Frequency Stabilities

■ Frequency Stability ±0.50ppm

Operating Temperature Ranges

■ -30 to 85°C

Frequency Parameters

■ Supply Voltage Variation: ±0.2ppm max

■ Load Variation: ±0.1ppm max

Output Details

■ Output: 0.8V pk-pk min

Noise Parameter

- Phase Noise (typical)
 - -80dBc/Hz @ 10Hz
 - -105dBc/Hz @ 100Hz
 - -130dBc/Hz @ 1kHz
 - -145dBc/Hz @ 10kHz
- Harmonics: -5dBc max

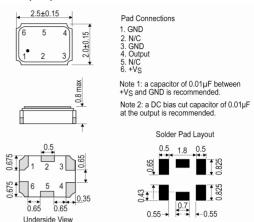
Environmental Parameters

- Storage Temperature Range: -40 to 85°C
- Drop: 150cm drop (6 directions x 3 times) onto hard wooden board
- Vibration: 1.5mm amplitude, 10Hz-55Hz-10Hz, sweep rate 1min in 3 mutually perpendicular planes, duration 2hrs each plane

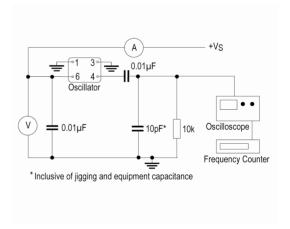
Manufacturing Details

- MSL 1
- Soldering: Suitable for Convection Reflow soldering. Peak temperature 260°C for 10sec max
- Washing: Not recommended

Outline (mm)



Test Circuit



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Ordering Information (*minimum required)

■ Frequency*

Model*

Output

Frequency stability (over operating temperature range)*

Operating Temperature Range*

Supply Voltage

(*minimum required)

■ Example

13.0MHz CFPT-69

Clipped Sine ±2ppm -30 to 85C 3.0V

Packing Details

■ Pack Style: **Bulk** Loose in bulk pack

Pack Size 100

■ Pack Style: **Reel** Tape and reel in accordance with EIA-481-D

Pack Size 3,000
■ Alternative packing options available

Electrical Specification - maximum limiting values 3.0V ±5%

Developed Frequencies	Temp Range	Stability	Output Waveform	Supply Current
13.000MHz	-30 to 85°C	±0.50ppm	Clipped Sine	2.0mA
16.368MHz	-30 to 85°C	±0.50ppm	Clipped Sine	2.0mA
16.369MHz	-30 to 85°C	±0.50ppm	Clipped Sine	2.0mA
19.200MHz	-30 to 85°C	±0.50ppm	Clipped Sine	2.0mA
26.000MHz	-30 to 85°C	±0.50ppm	Clipped Sine	2.0mA
27.456MHz	-30 to 85°C	±0.50ppm	Clipped Sine	2.0mA
38.400MHz	-30 to 85°C	±0.50ppm	Clipped Sine	2.0mA

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