CFPT-75   SMD TCXO

Description

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

Package Outline

■ 3.2 x 2.5mm

Standard Frequencies

■ 13.0, 16.368, 16.369, 19.2, 26.0, 27.456, 38.4MHz

Output Compatibility & Load

■ Clipped Sine 0.8V pk-pk minimum, 10kΩ // 10pF ±10%

Harmonics

■ -5dBc maximum

Frequency Stability

■ Temperature (see table)
■ Tolerance ±2.0ppm @ 25°C ±2°C
■ Supply Voltage Variation ±0.2ppm maximum
■ Load Variation ±0.1ppm maximum
■ Ageing ±1ppm maximum per year @ 25°C ±2°C

Operating Temperature Range

■ –30 to 85°C

Storage Temperature Range

■ –40 to 85°C

Supply Voltage

■ 3.0V ±5%

Phase Noise (typical)

■ -80dBc/Hz @ 10Hz
■ -105dBc/Hz @ 100Hz
■ -130dBc/Hz @ 1kHz
■ -145dBc/Hz @ 10kHz

Environmental

■ Drop: natural drop from 150cm onto a hard board, 3 times in each mutually perpedicular axis.
■ Vibration: 10 to 55 to 10Hz, 1.5mm amplitude, 1 min sweep rate, 3 times in each axis, 2hrs duration per axis
■ MSL 3
■ Reflow Soldering Temp 260°C max for 10sec max
■ Washing not recommended

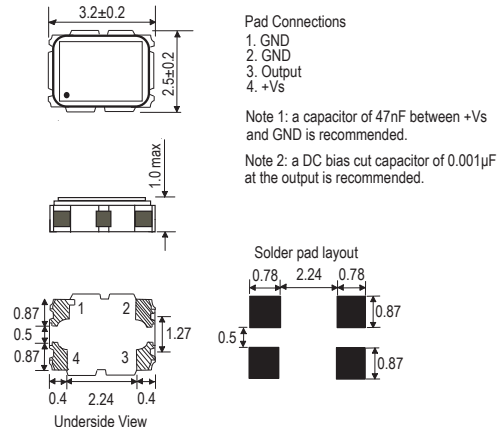## Marking Includes

■ Batch code

Packaging

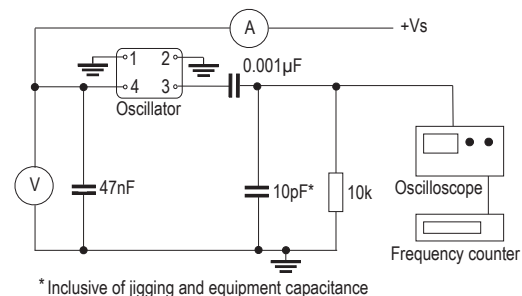■ Loose in bulk pack or tape and reel
■ Tape & Reel to EIA-481

Minimum Order Information Required

■ Frequency + Model Number + Operating Temperature Code + Frequency Stability

Outline (mm)

Pad Connections
1. GND
2. GND
3. Output
4. +Vs

Note 1: a capacitor of 47nF between +Vs and GND is recommended.

Note 2: a DC bias cut capacitor of 0.001µF at the output is recommended.

Solder pad layout

Underside View

Test Circuit

* Inclusive of jigging and equipment capacitance

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Electrical Specification - maximum limiting values

Frequencies	Frequency Tolerance @ 25°C	Supply Voltage	Supply Current	Output Waveform	Output	Model Number
13.0, 16.368, 16.369, 19.2, 26.0, 27.456, 38.4MHz	±2.0ppm	3.0V ±5%	2mA	Clipped Sine	0.8V pk-pk min	CFPT-75

Frequency Stabilities over Operating Temperature Range

Operating Temperature Range	Frequency Stabilities v Operating Temperature Range	
	±0.5ppm	±2.0ppm
−30 to 85°C	Code EW	Code GW

Ordering Example   13.0MHz CFPT-75 GW
Frequency ————————————————————————————
Model No. ————————————————————————————
Frequency Stability vs Operating Temperature Code ————————

Other frequencies may be available, please contact our sales office.