



Description

- Surface mount temperature compensated crystal oscillator (TCXO) in a miniature ceramic package
- Model CFPT-77
- Model Issue number 2

Frequency Parameters

- Frequency 38.40MHz
- Frequency Tolerance @ 25°C ±2.00ppm
- Frequency Stability ±2.00ppm
- Operating Temperature Range -30.00 to 85.00°C
- Ageing ±1ppm max per year @25±2°C
- Supply Voltage Variation: ±0.2ppm max
- Load Variation: ±0.1ppm max

Electrical Parameters

- Supply Voltage 1.8V
- Supply Voltage Tolerance ±5%
- Current Draw 2.00mA max

Output Details

- Output Compatibility Clipped Sine
- Output Load 10kΩ//10pF ±10%
- Output Compatibility & Load: Clipped Sine 0.8pk-pk minimum, 10kΩ // 10pF ±10%

Noise Parameters

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

Environmental Parameters

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

Manufacturing Details

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

Compliance

- RoHS Status Compliant
- REACH Status Compliant

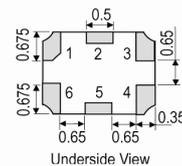
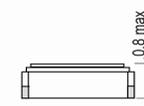
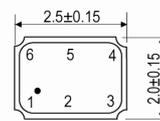
Packaging

- Pack Type: Bulk Loose in bulk pack
- Pack Size 100
- Alternative packing option available

This document is correct at the time of printing; please contact your local office for the latest version.



Outline (mm)



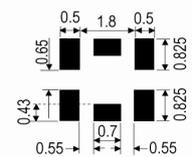
Pad Connections

- GND
- N/C
- GND
- Output
- N/C
- +Vs

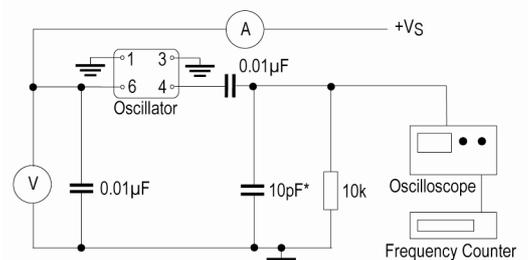
Note 1: a capacitor of 0.01µF between +Vs and GND is recommended.

Note 2: a DC bias cut capacitor of 0.01µF at the output is recommended.

Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

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