



Description

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

- Model CFPT-69
- Model Issue number 2

Frequency Parameters

- Frequency 26.0MHz
- Frequency Tolerance @ 25°C $\pm 2.00\text{ppm}$
- Frequency Stability $\pm 0.50\text{ppm}$
- Operating Temperature Range -30.00 to 85.00°C
- Ageing $\pm 1\text{ppm}$ max per year @ 25°C $\pm 2^\circ\text{C}$
- Supply Voltage Variation: $\pm 0.2\text{ppm}$ max
- Load Variation: $\pm 0.1\text{ppm}$ max

Electrical Parameters

- Supply Voltage 3.0V
- Supply Voltage Tolerance $\pm 5\%$
- Current Draw 2.00mA max

Output Details

- Output Compatibility Clipped Sine
- Output Load 10k Ω /10pF $\pm 10\%$
- Output: 0.8V pk-pk min

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

Manufacturing Details

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

Compliance

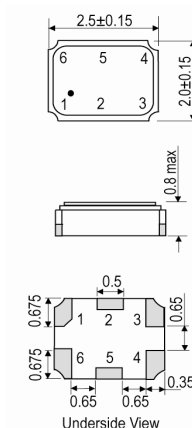
- RoHS Status Compliant
- REACH Status Compliant

Packaging

- Pack Type: Reel Tape and reel in accordance with EIA-481-D
- Pack Size 3,000
- Alternative packing option available

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

Outline (mm)



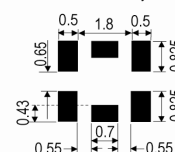
Pad Connections

- GND
- N/C
- GND
- Output
- N/C
- +VS

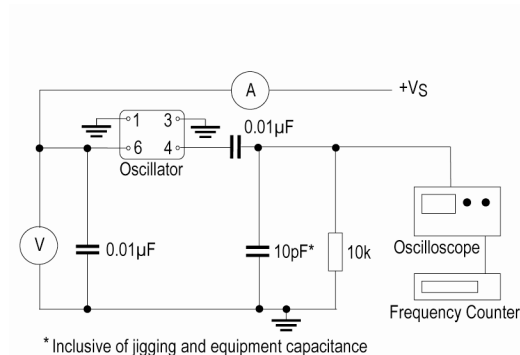
Note 1: a capacitor of 0.01 μF between +VS and GND is recommended.

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

Solder Pad Layout



Test Circuit



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