


Description

- Surface mount temperature compensated voltage controlled oscillator (TCVCXO) providing a high degree of frequency stability over a wide temperature range in a hermetically sealed ceramic package
- Model CFPT-126
- Model Issue number 5

Frequency Parameters

- Frequency 12.80MHz
- Frequency Stability ± 0.50 ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ± 1 ppm typical in 1st year @ 25°C

Electrical Parameters

- Supply Voltage 3.3V $\pm 5\%$
- Current Draw (Typical): 3mA @ 20MHz
- Supply Voltage Variation:
 <30MHz ± 0.3 ppm
 30MHz to 40MHz ± 0.4 ppm
- Load Variation: ± 0.2 ppm (@15pF $\pm 10\%$)
 After Reflow: ± 1.0 ppm

Frequency Adjustment

- Pulling ± 5 ppm min
- Control Voltage 1.65V ± 1.0 V

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF nom
- Rise and Fall Time 8.0ns max
- Duty Cycle 45/55%

Environmental Parameters

- 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
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

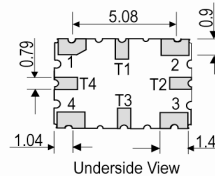
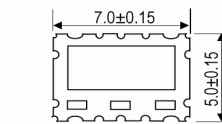
- Soldering: Suitable for Convection Reflow soldering. Peak temperature 260°C, 60sec max above 220°C
- Washing: Able to withstand aqueous washing

Compliance

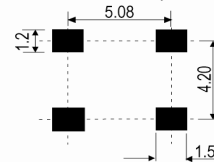
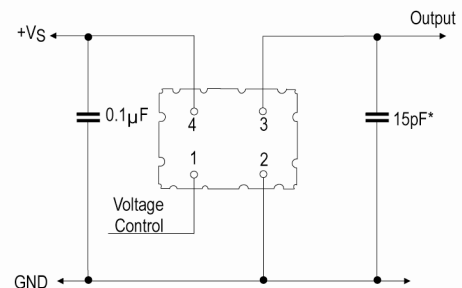
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): 1

Packaging Details

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


Outline (mm)


- Pad Connections
1. Voltage Control
 2. GND
 3. Output
 4. +Vs
- T1, T2, T3, T4,
Do Not Connect

Solder Pad Layout

Test Circuit


* Inclusive of probe and jig capacitance

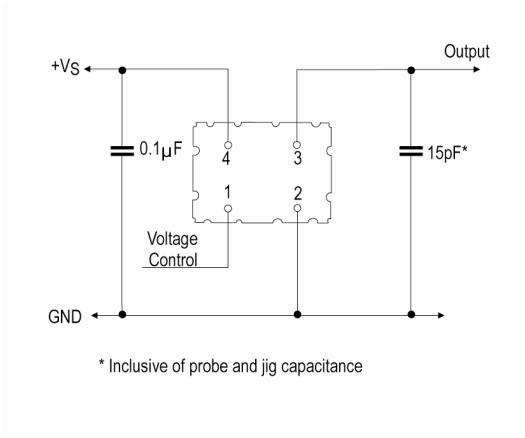
Sales Office Contact Details:

UK: +44 (0)1460 270200
 Germany: 0800 1808 443

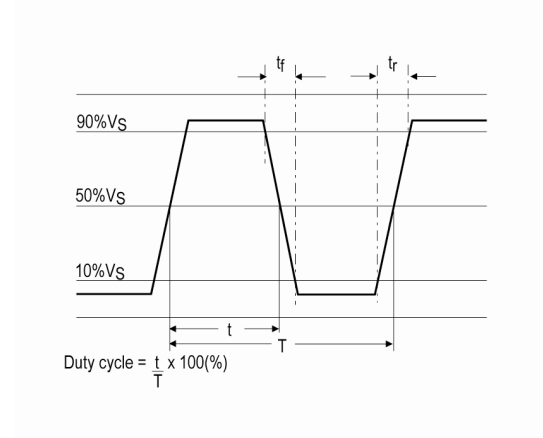
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Test Circuit



Wave Form



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