



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-125
- Model Issue number: 10

Frequency Parameters

- Frequency: 16.3840MHz
- Frequency Tolerance @ 25°C: INCLUSIVE
- Frequency Stability: ±0.90ppm
- Operating Temperature Range: -20.00 to 70.00°C
- Ageing: ±1ppm typical in 1st year @25°C

Electrical Parameters

- Supply Voltage: 3.3V
- Supply Voltage Tolerance: ±5%
- Current Draw: 3.00mA max
- Supply current typical at 20MHz
- Supply Voltage Variation:
 - <30MHz ±0.3ppm
 - 30MHz to <40MHz ±0.4ppm
 - 40MHz ±0.5ppm
- Load Variation: ±0.2ppm (@15pF ±10%)
After Reflow: ±1.0ppm

Frequency Adjustment

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

Output Details

- Output Compatibility: HCMOS
- Output Load: 15pF (nominal)
- Rise and Fall time (10% - 90%): 8ns 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
- Storage Temperature Range: -55 to 125°C
- Solderability: MIL-STD-202, Method 208, Category 3

Manufacturing Details

- Soldering: Suitable for Convection Reflow soldering. Peak temperature 260°C for 10sec max
- Washing: Able to withstand aqueous washing

Compliance

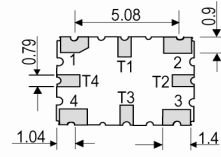
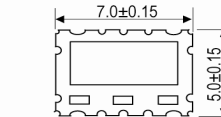
- RoHS Status: Compliant
- REACH Status: Compliant

Packaging

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



Outline (mm)

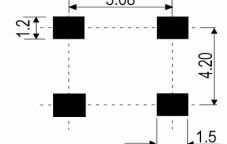


Underside View

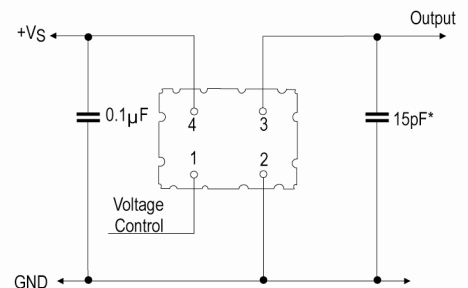
Pad Connections

- Voltage Control
 - GND
 - Output
 - +Vs
- T1, T2, T3, T4,
Do Not Connect

Solder Pad Layout



Test Circuit



* Inclusive of probe and jig capacitance

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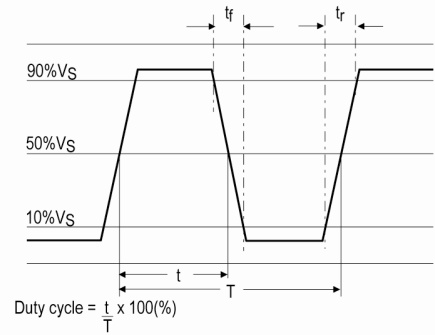
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Wave Form



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