



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: 13.0MHz
- Frequency Tolerance @ 25°C: INCLUSIVE
- Frequency Stability: ±0.50ppm
- Operating Temperature Range: -40.00 to 85.00°C
- Ageing: ±1ppm typical in 1st year @ 25°C

Electrical Parameters

- Supply Voltage: 3.3V
- Supply Voltage Tolerance: ±5%
- Current Draw (Typical): 3mA @ 20MHz
- Supply Voltage Variation:
 - <30MHz ±0.3ppm
 - 30MHz to 40MHz ±0.4ppm
- 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 nom
- 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, 60sec max above 220°C
- Washing: Able to withstand aqueous washing

Compliance

- RoHS Status: Compliant
- REACH Status: Compliant

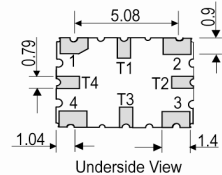
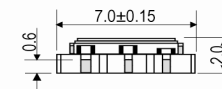
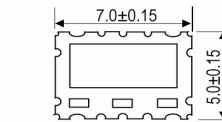
Packaging

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

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



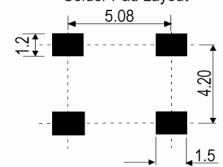
Outline (mm)



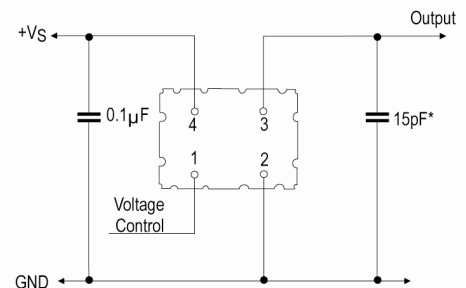
Pad Connections

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

Solder Pad Layout



Test Circuit



* Inclusive of probe and jig capacitance

Sales Office Contact Details:

UK: +44 (0)1460 270200

Germany: +49 (0) 30 408 192 300

France: +33 (0)5 34 50 91 18

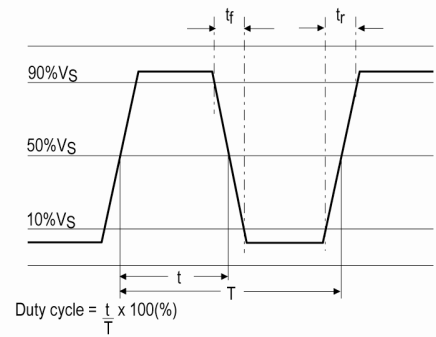
USA: +1 408.273.4530

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com



Wave Form



Sales Office Contact Details:

UK: +44 (0)1460 270200

Germany: +49 (0) 30 408 192 300

France: +33 (0)5 34 50 91 18

USA: +1 408.273.4530

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com