

Customer Part:
Description

- Surface mount Voltage Controlled Temperature Compensated Oscillator (VCTCXO) 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 20.0MHz
- Frequency Stability $\pm 0.50\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 1\text{ppm}$ typical in 1st year @ 25°C
- Frequency Stability Reference to $(F_{\text{max}} + F_{\text{min}})/2$

Electrical Parameters

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

Frequency Adjustment

- Pulling $\pm 5\text{ppm min}$
- Control Voltage $1.65\text{V} \pm 1.0\text{V}$

Output Details

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

Environmental Parameters

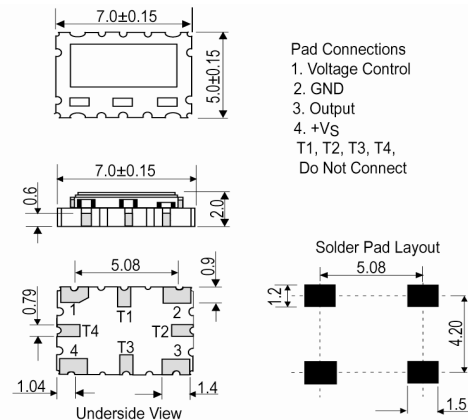
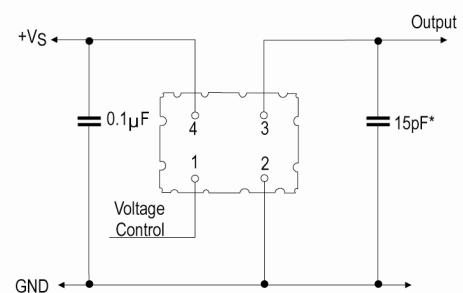
- Shock: IEC 60068-2-27, Test Ea: 980m/s^2 acceleration for 6ms, 3 shocks in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6, Test Fc, Procedure B4: 10Hz - 60Hz 1.5mm displacement, 60 - 2000Hz at 98.1m/s^2 , 30mins in 3 mutually perpendicular planes at 1 oct/min
- Solderability: MIL-STD-202, 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
- RoHS Terminations NiCoAu
- RoHS Reflow Temp 260degC 10s

Compliance

- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): 1


Outline (mm)

Test Circuit


* Inclusive of probe and jig capacitance

Sales Office Contact Details:

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

France: 0800 901 383
USA: +1.760.318.2824

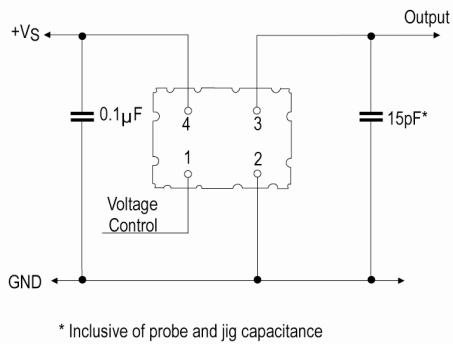
Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

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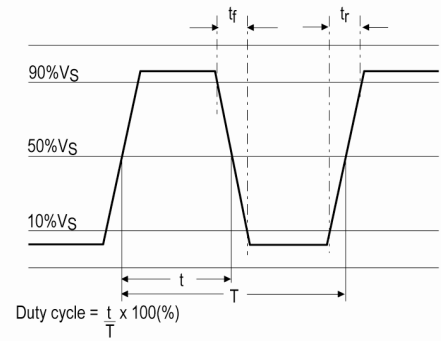
Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- *Alternative packing option available*

Test Circuit



Wave Form



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