



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	10.0MHz
■ 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

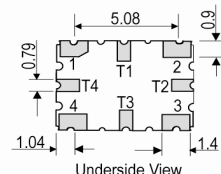
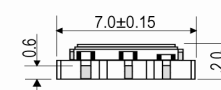
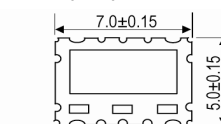
Packaging

- Pack Type: Bulk
 Pack Size: 100
- Alternative packing option available

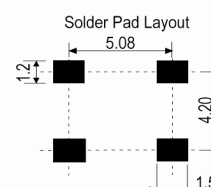
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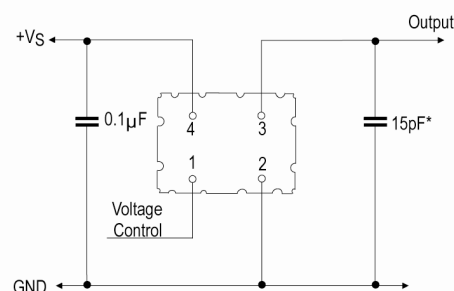
Outline (mm)



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



Test Circuit



* Inclusive of probe and jig capacitance

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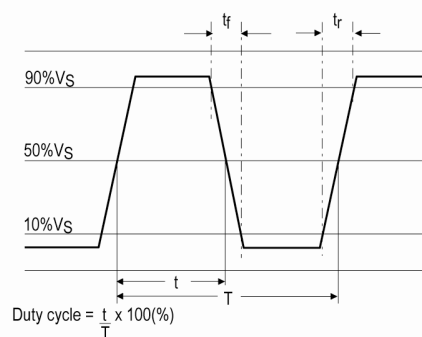
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Wave Form



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