

# **Oscillator Specification**

Part No. + Packaging: LFTVX0009917BULK

## Description

 Surface mount temperature compensated voltage controlled oscillator (TCVCXO) providing a high degree of frequency stability over a wide temperature range in a hermeticaly sealed ceramic package

■ Model CFPT-126

Model Issue number5

# **Frequency Parameters**

■ Frequency
■ Frequency Tolerance @ 25°C
■ 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</li>
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 Compatability 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 CompliantREACh Status Compliant

#### **Packaging**

■ Pack Type: Bulk Loose in bulk pack

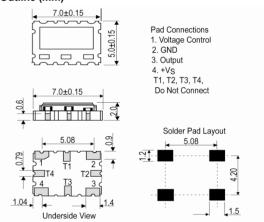
Pack Size 100

Alternative packing option available

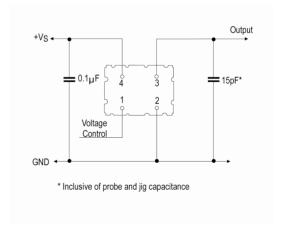
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## Outline (mm)



#### **Test Circuit**



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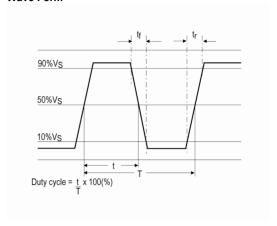
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# **Wave Form**



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