

# **VCTCXO Specification**

Part No.: LFTVXO009901Bulk

### **Customer Part:**

# Description

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

Model CFPT-125Model Issue number 11

### **Frequency Parameters**

Frequency
 Frequency Stability
 Operating Temperature Range
 Ageing
 12.80MHz
 ±0.90ppm
 -20.00 to 70.00°C
 ±1ppm typical in 1st year
 @25°C

### **Electrical Parameters**

Supply Voltage 3.3V ±5%Current Draw 3.000mA

Supply current typical at 20MHz

Supply Voltage Variation
 30MHz ±0.3ppm
 30MHz to <40MHz ±0.4ppm</li>
 40MHz ±0.5ppm

Load Variation: ±0.2ppm (@15pF ±10%)
 After Reflow: ±1.0ppm

### **Frequency Adjustment**

Pulling ±5ppm minControl Voltage 1.65V ±1.0V

# **Output Details**

Output Compatibility
 Drive Capability
 Rise and Fall Time
 Duty Cycle
 HCMOS
 15pF (nominal)
 8.0ns max
 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
- 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 for 10sec max

Washing: Able to withstand aqueous washing
 RoHS Terminations NiCoAu
 RoHS Reflow Temp 260degC 30s

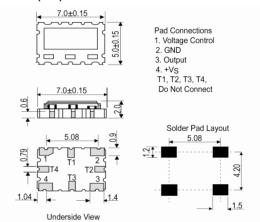
# Compliance

■ RoHS Status (2015/863/EU) Compliant
■ REACh Status Compliant

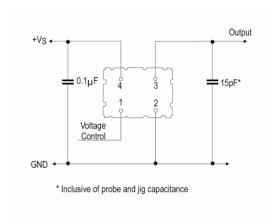
MSL Rating (JDEC-STD-033): 1



### Outline (mm)



### **Test Circuit**



### Sales Office Contact Details:

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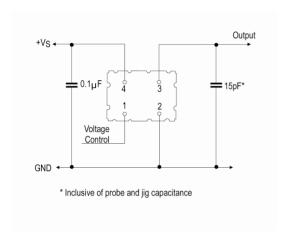
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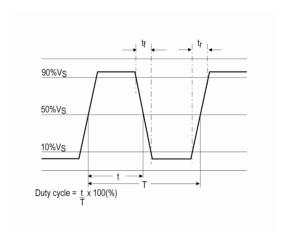
# **Packaging Details**

- Pack Style: Bulk Loose in bulk pack Standard Pack Quantity: 100
- Alternative packing option available

### **Test Circuit**



### **Wave Form**



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