

Oscillator Specification

Part No. + Packaging: LFTVX0022175BULK

Description

Surface mount temperature compensated voltage controlled crystal oscillator (TCVCXO) providing a high degree of frequency stability over a wide temperature range in a hermetically sealed ceramic package and is particularly suited to applications where space is at a premium.

■ Model CFPT-141

■ Model Issue number 8

Frequency Parameters

Frequency 20.0MHz
Frequency Tolerance @ 25°C ±0.50ppm
Frequency Stability ±2.50ppm

■ Operating Temperature Range -30.00 to 85.00°C

■ Ageing ±1ppm typ in 1st year @ 25°C

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Electrical Parameters

Supply Voltage 3.0V
Supply Voltage Tolerance ±0.15V
Current Draw 2.00mA max
Supply Voltage Variation: ±0.2ppm (5% change)
Load Variation: ±0.2ppm max (10% change)

Frequency Adjustment

■ Pulling ±3ppm min to ±7ppm max

■ Control Voltage Details 1.5V ±1.0V

■ Input Impeadance (Pad1): 1.0MΩ min

Output Details

Output Compatability Clipped Sine
Output Load 10kΩ // 10pF ±10%

■ Output: 0.8Vpk-pk min

Noise Parameters

■ Phase Noise (typical @ 13MHz)

-80dBc/Hz @ 10Hz

-105dBc/Hz @ 100Hz

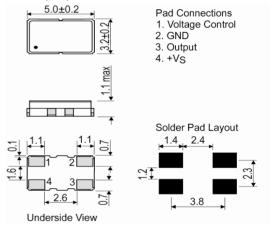
-130dBc/Hz @ 1kHz

-140dBc/Hz @ 10kHz

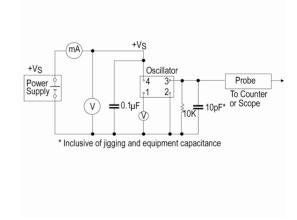




Outline (mm)



Test Circuit



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Environmental Parameters

- Shock: MIL-STD-883D, Method 2002.3, Test Condition B: 1500G, 0.5ms, 1/2 sine wave, 3 shocks in each of 3 mutually perpendicular planes
- Vibration: MIL-STD-883D, Method 2005.2, Test Condition B: 20G (20Hz-2000Hz), 1.5mm amplitude, in 3 mutually perpendicular planes, 4hrs in each plane
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

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Compliance

RoHS Status CompliantREACh Status Compliant

Packaging

Pack Type: Bulk Loose in bulk packPack Size 100

Alternative packing option available

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