Crystal Clock Oscillator Specification

Part No.: ***LFSPXO067064***

Customer Part:

Description

- Surface mount oscillator in a ceramic package with a hermetically sealed metal lid
- Model CFPS-31
- Model Issue number 8

Frequency Parameters

- Frequency 125.0MHz
- Frequency Stability ±50.00ppm
- Operating Temperature Range -40.00 to 85.00°C

Electrical Parameters

- Supply Voltage 1.8V ±5%
- Current Draw 25.000mA

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 3.0ns max
- Duty Cycle 40/60

Output Control

- Logic '1' (>70% VS) to pad 1 enables oscillator output
  Logic '0' (<30% VS) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state
  No connection to pad 1 enables oscillator output
- Standby Current: 10µA max

Environmental Parameters

- Storage Temperature Range: –55 to 125°C
- Drop Test: in accordance with JIS-C0044: The specimen is measured for its frequency before the test. It is then dropped from a height of 75 cm or more as a free fall object onto a hard wooden plate of 30 mm or more in thickness.
- Vibration: MIL-STD-883F :2007.3 : Freq.range: 20~2000Hz; Peak to peak amplitude: 1.52mm; Peak acceleration: 20g; Sweep time: 3 directions (X, Y, Z),each 20 minutes / axis; Pendicular test time: 4 hours

Manufacturing Details

- RoHS Terminations Au / 0.3 um min.
- RoHS Reflow Temp 255°C 30s max

Compliance

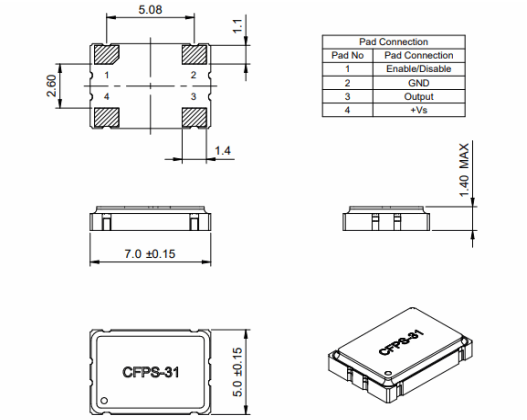
- RoHS Status (2015/863/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

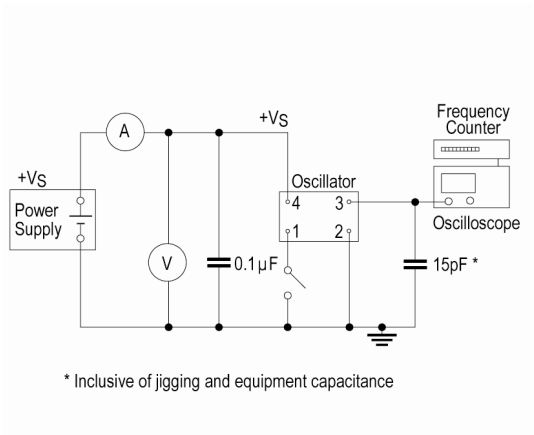
- Tape & reel in accordance with EIA-481
  Quantities below the standard reel size to be supplied on cut tape

  Standard Pack Quantity: 1,000

Outline (mm)



Test Circuit



* Inclusive of jigging and equipment capacitance

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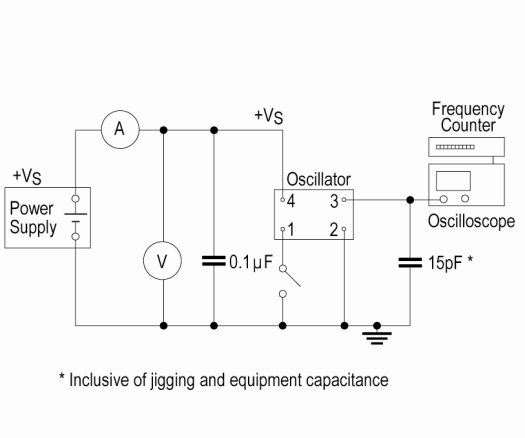
Customer Part:

Test Circuit



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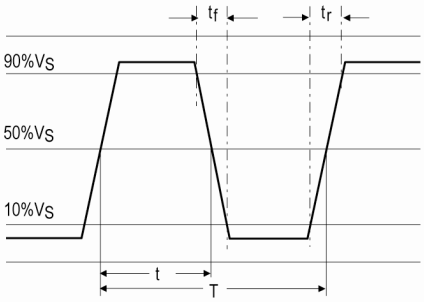
Wave Form



Duty cycle = $\frac{t}{T}$ x 100(%)

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