# Crystal Clock Oscillator Specification

*Part No. + Packaging:* ***LFSPXO018567Reel***

**Customer Part:**

## Description

- Standard 7 x 5mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed.
- Model CFPS-73
- Model Issue number 14

## Frequency Parameters

- Frequency 1.84320MHz
- Frequency Stability ±100.00ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ±3ppm per year max

## Electrical Parameters

- Supply Voltage 3.3V ±10%
- Current Draw 7.000mA
- Note: parameters are referenced to 15pF load

## Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF std, 50pF max
- Rise and Fall Time 10.0ns max
- Duty Cycle 45/55
- Start up time: 10ms max.
  0.9ms typ to 90% of final amplitude ( under ideal conditions @ 25°C)

## Output Control

- Standby Operation:
  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, 0.9µA typ @ 25°C

## Noise Parameters

- Phase Noise @125MHz (typical):
  10Hz -54dBc
  100Hz -92dBc
  1kHz -130dBc
  10kHz -149dBc
  100kHz -159dBc
  1MHz -163dBc
- RMS Phase Jitter @125MHz: 52fs typical

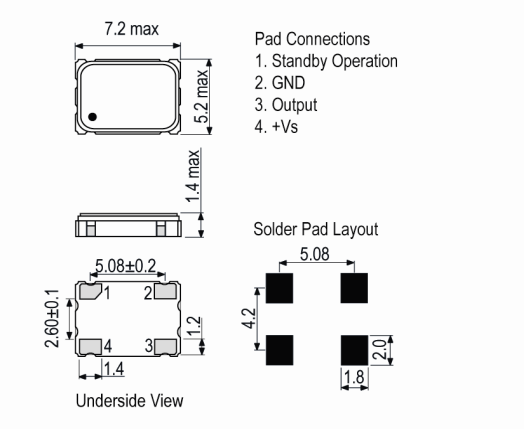
## Environmental Parameters

- Shock: MIL-STD-202, Method 213, Condition E
- Vibration: MIL-STD-883, Method 2007, Condition A
- Storage Temperature Range: -55 to 125°C

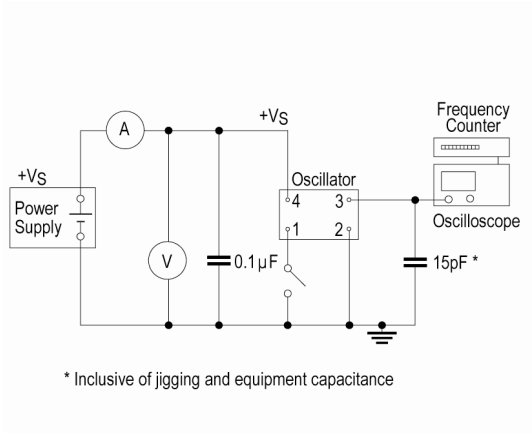
## Manufacturing Details

- RoHS Terminations NiAu
- RoHS Reflow Temp 260degC 10s

**Outline (mm)**




**Test Circuit**




**Sales Office Contact Details:**

UK: +44 (0)1460 270200
France: 0800 901 383
Email: info@iqdfrequencyproducts.com
Germany: 0800 1808 443
USA: +1.760.318.2824
Web: www.iqdfrequencyproducts.com

**Customer Part:**

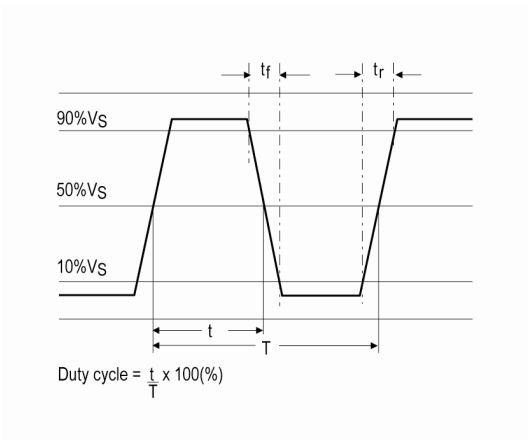
## Compliance

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

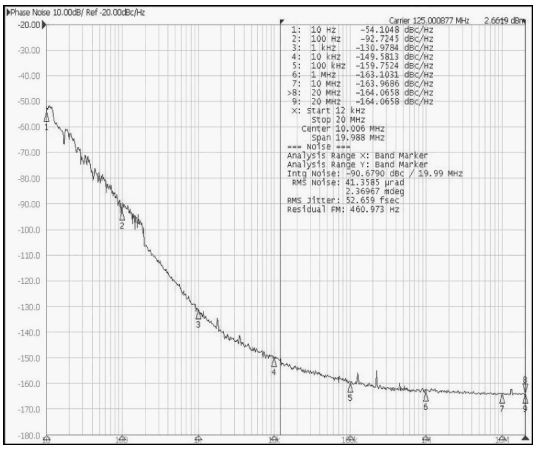
## Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
  Pack Size: 1,000
- *Alternative packing option available*

**Wave Form**




**Phase Noise / Jitter**

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