Crystal Clock Oscillator Specification
Part No. + Packaging: LFSPXO076706Cutt

Description
- Surface mount 3.2 x 2.5mm crystal oscillator in a hermetically sealed ceramic package with a seam sealed metal lid.
- Model: CFPS-39
- Model Issue number: 6

Frequency Parameters
- Frequency: 80.0MHz
- Frequency Stability: ±25.00ppm
- Operating Temperature Range: -40.00 to 85.00°C
- Ageing: ±3ppm max per year @ 25°C

Electrical Parameters
- Supply Voltage: 3.3V ±10%
- Current Draw: 30.000mA

Output Details
- Output Compatibility: CMOS
- Drive Capability: 15pF max
- Rise and Fall Time: 5.0ns max
- Duty Cycle: 40/60%
- Start-Up Time: 10ms max. 0.7ms 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; when disabled 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
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20g (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Manufacturing Details
- RoHS Terminations: NiAu
- RoHS Reflow Temp: 260degC max for 10s max

Compliance
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details
- Pack Style: Cutt
  In tape, cut from a reel
- Pack Size: 100
  Alternative packing option available

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Wave Form

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