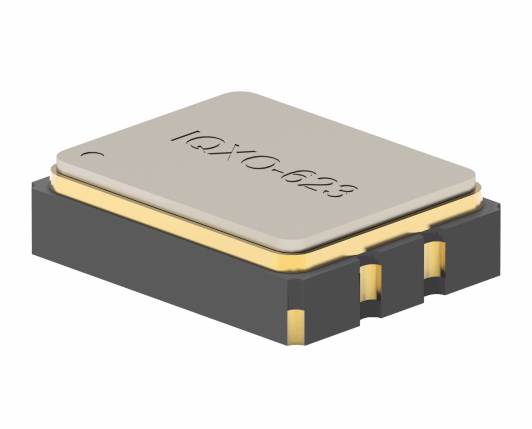
Crystal Clock Oscillator Specification

Part No. + Packaging: ***LFSPXO083325Reel***

Customer Part:

Description

- LVPECL output crystal oscillator using a high frequency fundamental crystal to give very low jitter. Hermetically sealed ceramic package with a seam sealed metal lid.
- Model IQXO-623
- Model Issue number 2
- Note: Operating temperature ranges -40 to 105°C and -40 to 125°C are intended for industrial use and not for safety critical applications such as automotive. Please contact IQD for alternative options.



Frequency Parameters

- Frequency 100.0MHz
- Frequency Stability ±50.00ppm
- Operating Temperature Range -40.00 to 105.00°C
- Ageing ±3ppm max per year @ 25°C

Electrical Parameters

- Supply Voltage 2.5V ±5%
- Current Draw 50.000mA

Output Details

- Output Compatibility LVPECL
- Rise and Fall Time 0.5ns max
- Duty Cycle 45/55%
- Output Voltage Levels:
  Output Low (VOL): 1.095V max
  Output High (VOH): 1.475V min

Output Control

- Standby Operation:
  Logic '1' (70% Vs min) to pad 1 enables oscillator output.
  Logic '0' (30% Vs max) to pad 1 disables oscillator output.
  No connection to pad 1 enables oscillator output due to internal pull-up resistor.
- Standby Current: 10µA max
- Start-up Time: 10ms max

Noise Parameters

- Phase Jitter (12kHz to 20MHz): 1ps rms max
  Phase Jitter (12kHz to 20MHz): 0.171ps rms typ @ 100MHz

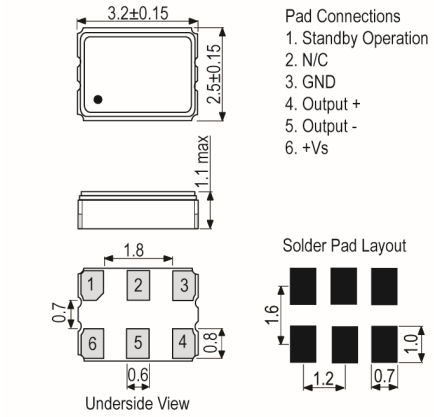
Environmental Parameters

- Storage Temperature Range: –55 to 125°C
- Shock: 1500G, 0.5ms, 3 times for each surface, total 18 times.
- Vibration: Freq. range: 20~2000Hz, peak to peak amplitude: 1.52mm, peak acceleration: 20G (196m/s²), 3 direction(X, Y,Z) ,each cycle: 20min, 4 cycles for each direction.

Manufacturing Details

- RoHS Terminations Au over Ni
- RoHS Reflow Temp 260°C max for 10sec mac

Outline (mm)



Sales Office Contact Details:

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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: 3,000
- *Alternative packing option available*

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