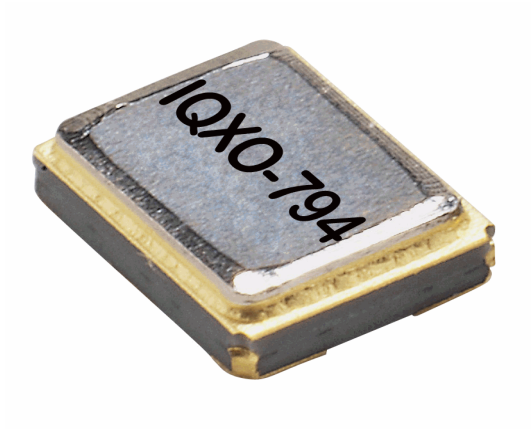
Crystal Clock Oscillator Specification

Part No. + Packaging: ***LFSPXO082218***

Customer Part:

Description

- Standard 2.5 x 2.0 oscillator in a ceramic package with a hermetically sealed metal lid.
- Model IQXO-794
- Model Issue number 2



Frequency Parameters

- Frequency 4.0MHz
- Frequency Stability ±25.00ppm
- Operating Temperature Range -20.00 to 70.00°C
- Ageing ±3ppm max per year

Electrical Parameters

- Supply Voltage 1.8V ±5%
- Current Draw 10.000mA

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF
- Rise and Fall Time 10.0ns max
- Duty Cycle 40/60%
- Output Voltage High: 90% of VS min
  Output Voltage Low: 10% of VS max
- Start Up Time: 10ms max
  0.9ms typ to 90% of final amplitude (under ideal conditions @ 25°C)

Output Control

- Standby Function (pin1):
  No Connection = Output Enabled
  >70% VS = Output Enabled
  <30% VS = Output Disabled
  (when disabled output goes to high impedance state)
- Standby Current: 10µA max, 0.5µA typ @ 25°C

Noise Parameters

- Jitter (Period pk-pk): ±80ps typ
- Jitter (Phase 12kHz to 20MHz): 1ps max
- Jitter (Period One Sigma): ±10ps typ

Environmental Parameters

- Shock: MIL-STD-202, Method 213. Or comparable.
- Vibration: MIL-STD-883, Method 2007. Or comparable.
- Storage Temperature Range: -55 to 125°C

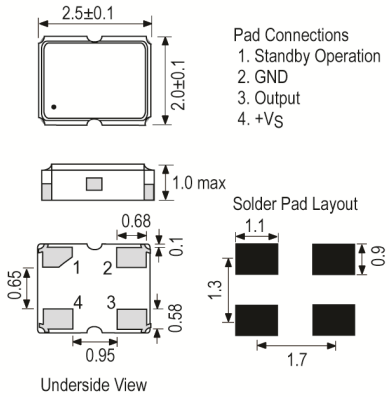
Compliance

- 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 Quantity: 3,000 Pieces

Outline (mm)



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IQD Frequency:

LFXTAL035599 LFXTAL072604 LFXTAL085874 LFXTAL085880 LF XTAL003335 LF XTAL012313
LFSPXO018036 LFXTAL026900 LFXTAL059815 LFXTAL009706 LFXTAL027945 LFXTAL061648
LFSPXO071189REEL LFXTAL029914 LFXTAL035266 LFXTAL059532 LF XTAL016788 LFXTAL009650
LF XTAL003127 LFSPXO018038 LFSPXO066657 LFXTAL082071 LF SPXO018035 LFTVXO009907BULK
LFXTAL003000 LFXTAL030234 LFXTAL059530 LFXTAL059575 LF SPXO025559 LFXTAL009678