Crystal Clock Oscillator Specification

Part No. + Packaging: ***LFSPXO019987***

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 50.0MHz
- Frequency Stability ±50.00ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ±3ppm per year max

Electrical Parameters

- Supply Voltage 3.3V ±10%
- Current Draw 25.000mA
- Note: parameters are referenced to 15pF load

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF std, 50pF max
- Rise and Fall Time 8.0ns 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

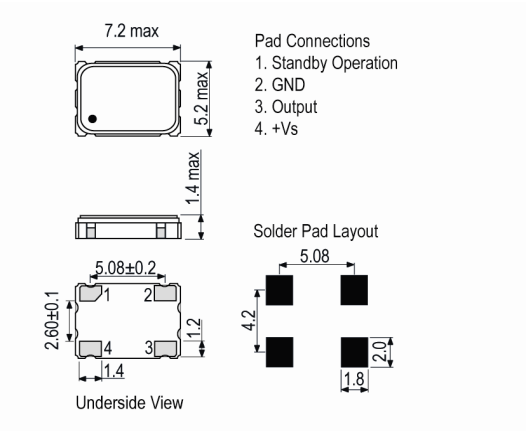
Environmental Parameters

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

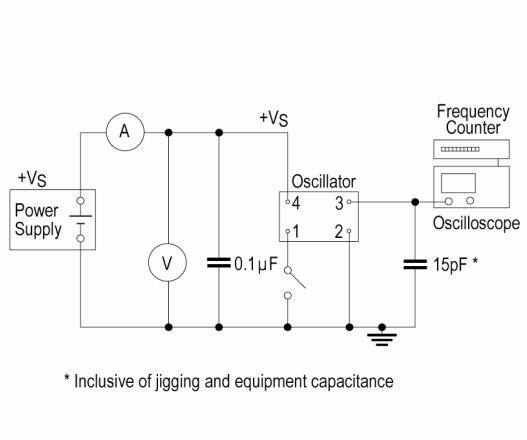
Manufacturing Details

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

Outline (mm)



Test Circuit



Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760 668 8935

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

Customer Part:

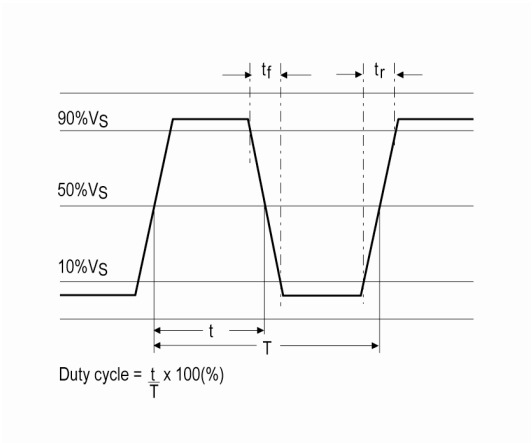
Compliance

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

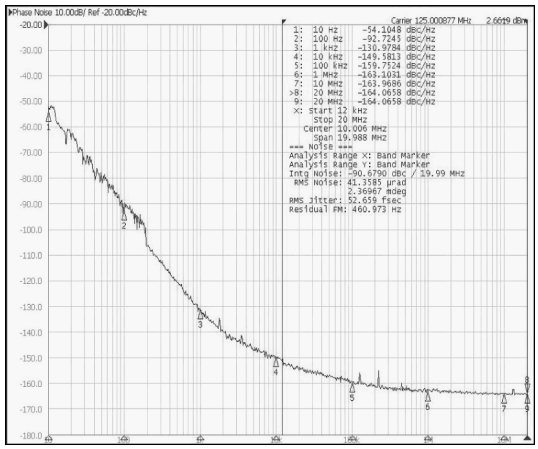
Packaging Details

- Tape & reel in accordance with EIA-481
  Quantities below the standard reel size to be supplied on cut tape.
  Standard Quantity: 1,000 Pieces

Wave Form



Phase Noise / Jitter



Sales Office Contact Details:
UK: +44 (0)1460 270200
USA: +1.760 668 8935
Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

IQD Frequency:

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