Crystal Clock Oscillator Specification

Part No. + Packaging: ***LFSPXO019992Reel***

Description

- Standard 7 x 5mm crystal oscillator
  Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-73
- Model Issue number 12



Frequency Parameters

- Frequency 20.0MHz
- 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 12.00mA

Output Details

- Output Compatability HCMOS
- Drive Capability 50pF max
- Rise and Fall Time 10.0ns max
- Duty Cycle 45/55

Output Control

- 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

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

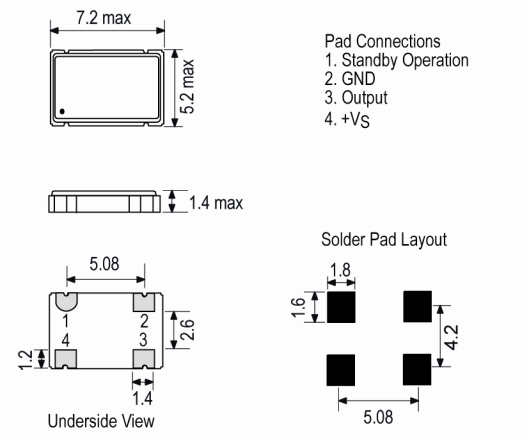
Compliance

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

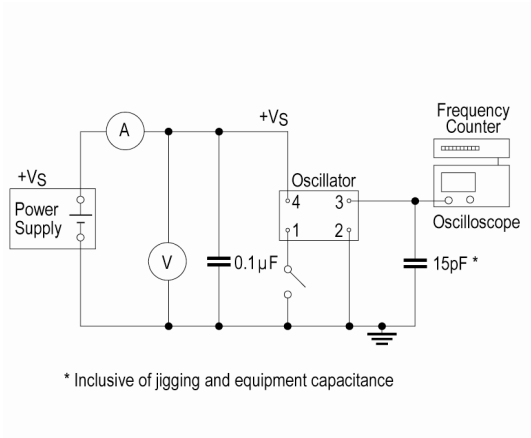
Packaging Details

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

Outline (mm)



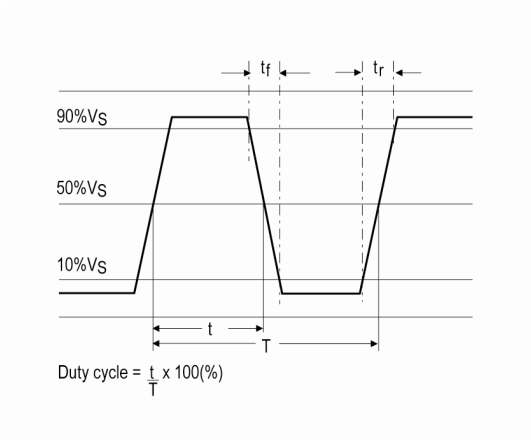
Test Circuit



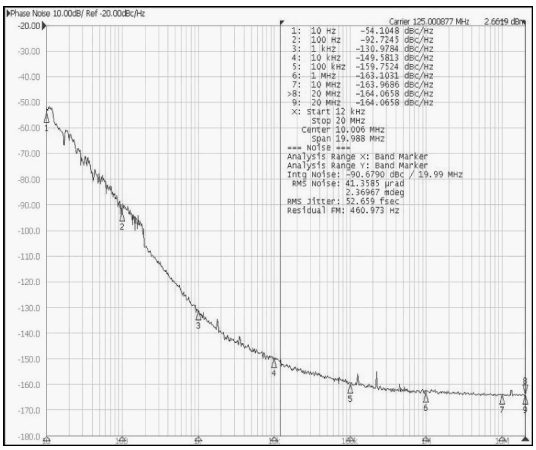
Sales Office Contact Details:

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

Wave Form



Phase Noise / Jitter



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