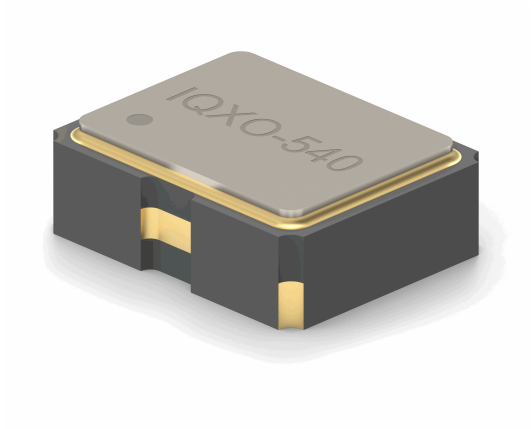
Crystal Clock Oscillator Specification

Part No. + Packaging: ***LFSPXO056242***

Customer Part:

Description

- Standard 2 x 1.6mm crystal oscillator in a hermetically sealed ceramic package with a seam sealed metal lid
- Model IQXO-540
- Model Issue number 3



Frequency Parameters

- Frequency 24.0MHz
- Frequency Stability ±50.00ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ±5ppm max per year @25°C

Electrical Parameters

- Supply Voltage 3.3V ±10%
- Current Draw 7.000mA

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns max
- Duty Cycle 45/55%
- 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, 1.0µA typ @25°C

Output Levels

- Output High (VoH): 90% of Vs min
  Output Low (VoL): 10% of Vs max

Environmental Parameters

- Storage Temperature Range: –40 to 85°C
- Impact: Weight of 10G dropped to centre of part from a height of 6mm
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)

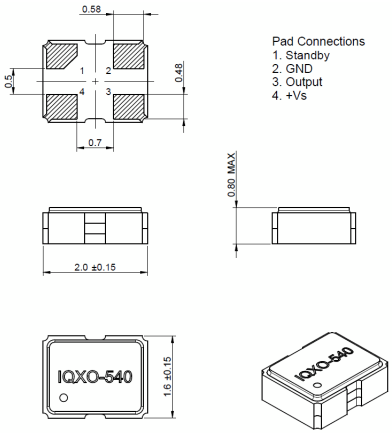
Manufacturing Details

- RoHS Terminations NiAu
- RoHS Reflow Temp 250°C max for 10s max

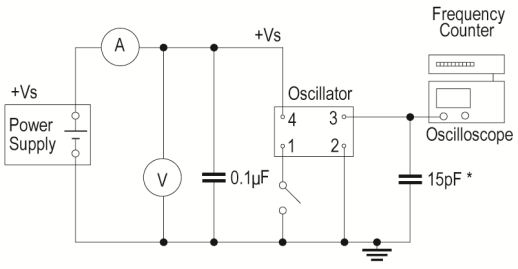
Compliance

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

Outline (mm)



Test Circuit



* Inclusive of jigging and equipment capacitance

Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760 668 8935

Email: info@iqdfrequencyproducts.com

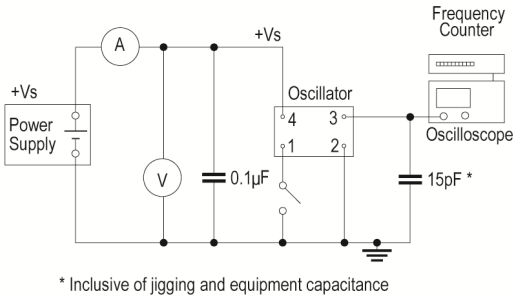
Web: www.iqdfrequencyproducts.com

Customer Part:

Packaging Details

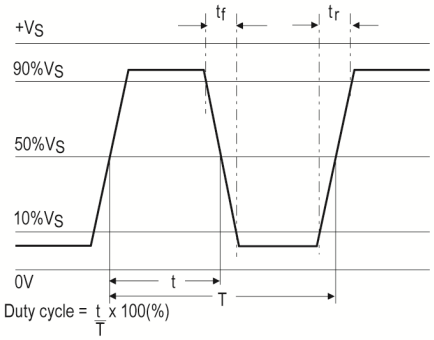
- Tape & reel in accordance with EIA-481
  Quantities below the standard reel size to be supplied on cut tape.
  Standard Quantity: 3,000 Pieces

Test Circuit



* Inclusive of jigging and equipment capacitance

Wave Form



Sales Office Contact Details:
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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:

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