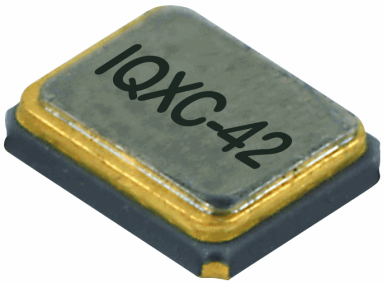
ISSUE 1; April 2022

Description

- Standard 2 x 1.6mm SMD crystal.
  Ceramic package with a seam sealed metal lid, hermetically sealed.



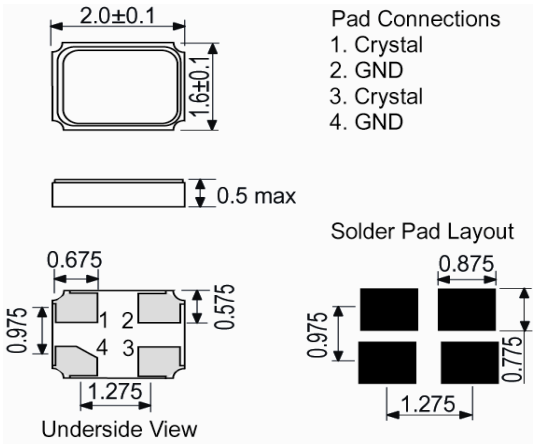
Frequency Parameters

- Frequency 16.0MHz to 50.0MHz
- Frequency Tolerance ±10.00ppm to ±100.00ppm
- Frequency Stability ±10.00ppm to ±100.00ppm
- Ageing ±3ppm max per year @ 25°C
- Note 2: For other frequency / specification combinations, please contact our sales offices

Electrical Parameters

- Load Capacitance (CL) 8.0pF to 30.0pF
- Shunt Capacitance (C0) 3pF max
- Drive Level 100µW max
- Note 1: ESR values for reference only. The final spec shall be confirmed for each frequency after sample production

Outline (mm)



Operating Temperature Ranges

- 0 to 50°C
- -10 to 60°C
- -10 to 70°C
- -20 to 70°C
- -40 to 85°C

Environmental Parameters

- Shock: IEC 60068-2-27: 1000G, 1ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)
- Storage Temperature Range: –55 to 125°C

Manufacturing Details

- RoHS Terminations NiAu
- RoHS Reflow 260degC 10s

Ordering Information

- Frequency*
  Model*
  Frequency Tolerance (@25°C)*
  Frequency Stability (over operating temperature range)*
  Operating Temperature Range*
  Load Capacitance*
  Overtone
- Example:
  30.0MHz IQXC-42
  30/50/–40 to 85C/16 FUND

Compliance

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

Sales Office Contact Details:
UK: +44 (0)1460 270200
USA: +1.760.318.2824
Email: info@iqdfrequencyproducts.com
Web: www.iqdfrequencyproducts.com

Packaging Details

- Pack Style: RL3K Tape & reel in accordance with EIA-481-D
  Pack Size: 3,000
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
  Pack Size: 1,000
- Pack Style: Cutt In tape, cut from a reel
  Pack Size: 100

Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
16.0MHz	19.999999MHz	0 to 50	±10	Fundamental	200
		-10 to 60	±15		200
		-20 to 70	±15		200
		-40 to 85	±20		200
20.0MHz	23.999999MHz	0 to 50	±10	Fundamental	120
		-10 to 70	±15		120
		-20 to 70	±15		120
		-40 to 85	±20		120
24.0MHz	29.999999MHz	0 to 50	±10	Fundamental	100
		-10 to 60	±15		100
		-20 to 70	±15		100
		-40 to 85	±20		100
30.0MHz	37.999999MHz	0 to 50	±10	Fundamental	80
		-10 to 60	±15		80
		-20 to 70	±15		80
		-40 to 85	±20		80
38.0MHz	50.0MHz	0 to 50	±10	Fundamental	60
		-10 to 60	±15		60
		-20 to 70	±15		60
		-40 to 85	±20		60

**Stability Maximum values ±100ppm*

This document was correct at the time of printing; please contact your local sales office for the latest version.
Click to view latest version on our website.

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