

Customer Part:

Description

- Ceramic package with a hermetically seam sealed metal lid suitable for automotive applications. Qualified to AEC-Q200 and with IATF-16949:2016 release. Not suitable for safety critical applications.
- Model IQXC-42 AUTO
- Model Issue number 1

Frequency Parameters

- Frequency 16.0MHz
- Frequency Tolerance $\pm 10.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability $\pm 100.00\text{ppm}$
- Operating Temperature Range -40.00 to 125.00°C
- Overtone Order Fundamental
- Ageing $\pm 3\text{ppm max per year @ 25°C}$

Electrical Parameters

- Load Capacitance (CL) 10.00pF
- Shunt Capacitance (C0) 3pF max
- Drive Level 250µW max
- ESR ***See Technical Notes***

Environmental Parameters

- Storage Temperature Range: -55 to 150°C
- Vibration (MIL-STD-202 Method 204): 5g, 10~2000Hz, 1.52mm, 3 directions; Sweep 20 min for each cycle, 12 cycles for each direction.
- Mechanical Shock (MIL-STD-202 Method 213): 100g, 6ms, 3 times for all 6 directions.
- Qualified to AEC-Q200 Rev E

Manufacturing Details

- RoHS Terminations Au
- RoHS Reflow Temp 255°C 30sec max

Compliance

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

Packaging Details

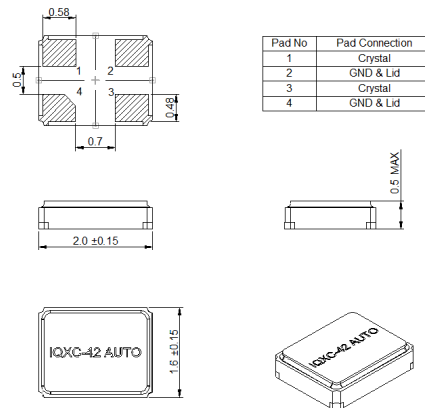
- Pack Style: Reel Tape & reel in accordance with EIA-481
Pack Size: 3,000
- Alternative packing option available

Technical Notes

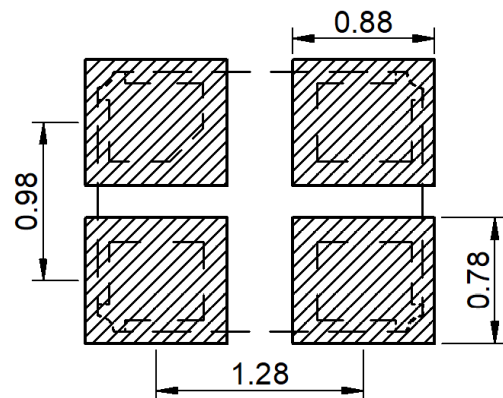
- ESR: 200Ω max



Outline (mm)



Recommended Solder Pad Layout



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