

### 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 24.5760MHz
- 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 80.00Ω max

#### 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

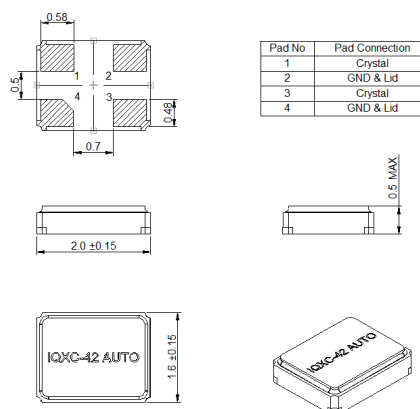
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

#### Packaging Details

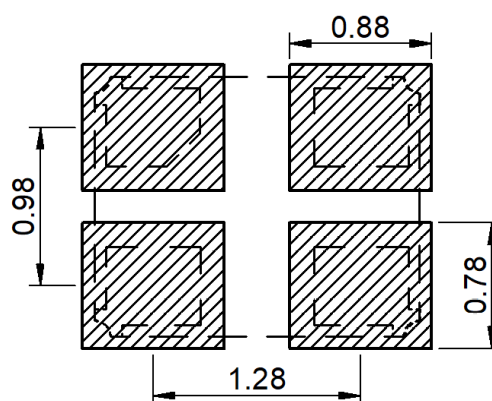
- Pack Style: Reel Tape & reel in accordance with EIA-481  
Pack Size: 3,000
- Alternative packing option available



#### Outline (mm)



#### Recommended Solder Pad Layout



#### Sales Office Contact Details:

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