

### Customer Part:

#### Description

- Ceramic package with a hermetically seam sealed metal lid suitable for automotive applications. Qualified to AEC-Q200 and available with IATF-16949:2016 release.  
Not suitable for safety critical applications.
- 4 pad
- Model IQXC-180 AUTO-B
- Model Issue number 3

#### Frequency Parameters

- Frequency 16.0MHz
- Frequency Tolerance  $\pm 15.00\text{ppm}$
- Tolerance Condition  $@25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $125.00^{\circ}\text{C}$
- Overtone Order Fundamental
- Ageing  $\pm 5\text{ppm}$  max per year @  $25^{\circ}\text{C}$

#### Electrical Parameters

- Load Capacitance (CL) 8.00pF
- Shunt Capacitance (C0) 7pF max
- Drive Level  $50\mu\text{W}$  standard,  $200\mu\text{W}$  max
- ESR  $80.00\Omega$  max

#### Environmental Parameters

- Storage Temperature Range:  $-55^{\circ}\text{C}$  to  $+150^{\circ}\text{C}$
- Qualified to AEC-Q200

#### Manufacturing Details

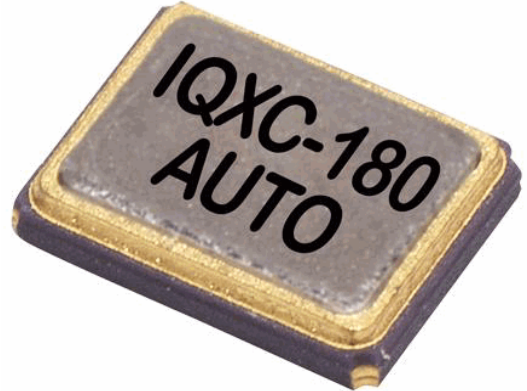
- RoHS Terminations NiAu
- RoHS Reflow Temp  $260^{\circ}\text{C}$  max for 10secs max

#### Compliance

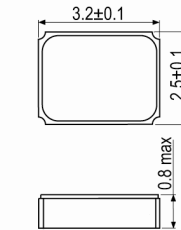
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

#### Packaging Details

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

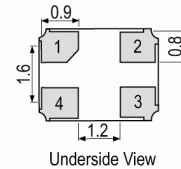


#### Outline (mm)

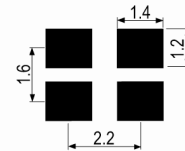


#### Pad Connections

1. Crystal
2. GND
3. Crystal
4. GND



#### Solder Pad Layout



### Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1.760 668 8935

Email: [info@iqdfrequencyproducts.com](mailto:info@iqdfrequencyproducts.com)

Web: [www.iqdfrequencyproducts.com](http://www.iqdfrequencyproducts.com)