

### 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 IQXO-540 AUTO
- Model Issue number 1

#### Frequency Parameters

- Frequency 12.0MHz
- Frequency Stability  $\pm 100.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Ageing  $\pm 5\text{ppm}$  max per year @  $25^\circ\text{C}$

#### Electrical Parameters

- Supply Voltage  $3.3\text{V} \pm 10\%$
- Current Draw  $6.000\text{mA}$

#### Output Details

- Output Compatibility CMOS
- Drive Capability  $15\text{pF}$
- Rise and Fall Time  $5.0\text{ns}$  max
- Duty Cycle  $40/60\%$

#### Output Control

- Enable/Disable Operation:  
Logic '1' ( $>70\%$  Vs) to pad 1 enables oscillator output.  
Logic '0' ( $<30\%$  Vs) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state.  
No connection to pad 1 enables oscillator output.
- Standby Current:  
 $-40$  to  $85^\circ\text{C}$ :  $10\mu\text{A}$  max  
 $-40$  to  $125^\circ\text{C}$ :  $20\mu\text{A}$  max

#### Environmental Parameters

- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$
- Qualified to AEC-Q200 Rev D

#### Manufacturing Details

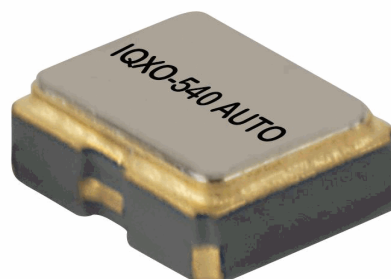
- RoHS Terminations NiAu
- RoHS Reflow Temp NiAu

#### Compliance

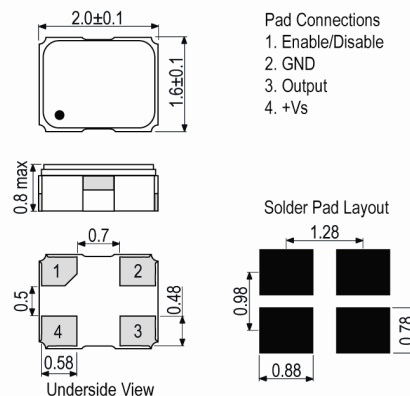
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

#### Packaging Details

- Pack Style: Cutt In tape, cut from a reel  
Standard Pack Quantity: 100
- *Alternative packing option available*



#### Outline (mm)



### Sales Office Contact Details:

UK: +44 (0)1460 270200

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

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