


**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**

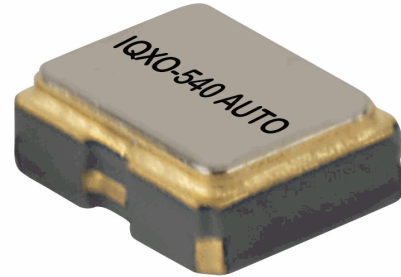
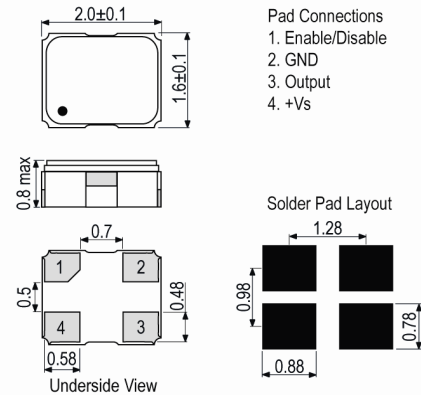
- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$
- Qualified to AEC-Q200

**Compliance**

- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

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


**Outline (mm)**

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