



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 8.0MHz
- Frequency Stability $\pm 100.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 5\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 10\%$
- Current Draw 5.000mA

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF
- Rise and Fall Time 5.0ns 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°C : $10\mu\text{A}$ max
 -40 to 125°C : $20\mu\text{A}$ max

Environmental Parameters

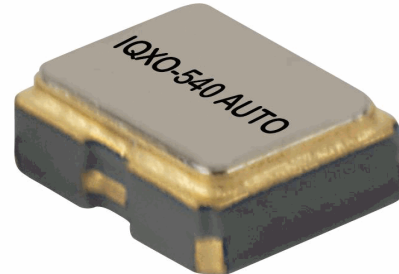
- Storage Temperature Range: -55 to 125°C
- Qualified to AEC-Q200

Compliance

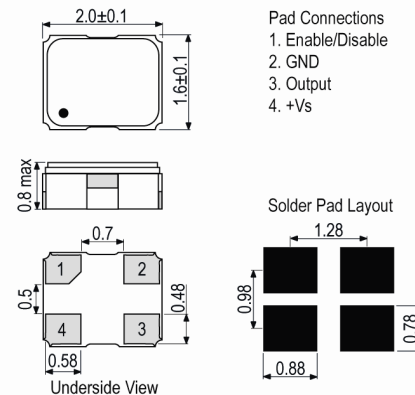
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- *Alternative packing option available*



Outline (mm)



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