Crystal Clock Oscillator Specification
IQXO-540 AUTO

ISSUE 1; April 2016

Description

- Ceramic package with a hermetically seam sealed metal lid suitable for automotive applications. Qualified to AEC-Q200 and with TS16949 release.

Frequency Parameters

- Frequency 4.0MHz to 50.0MHz
- Frequency Stability ±25.00ppm to ±100.00ppm
- Ageing ±5ppm max per year @ 25°C

Electrical Parameters

- Supply Voltage 3.3V ±10%

Operating Temperature Ranges

- -40 to 85°C
- -40 to 125°C

Output Details

- Output Compatability CMOS
- Drive Capability 15pF

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: 10µA max
  -40 to 125°C: 20µA max

Environmental Parameters

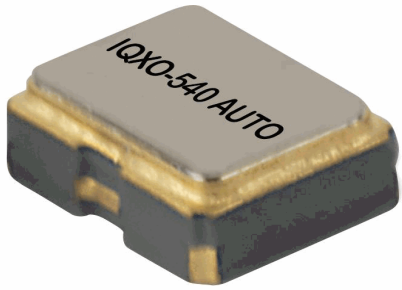
- Storage Temperature Range: -55 to 125°C
- Qualified to AEC-Q200

Ordering Information

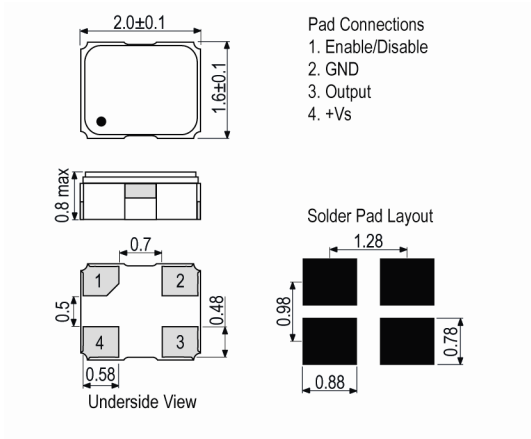
- Frequency*
  Model*
  Output
  Frequency Stability*
  Operating Temperature Range*
  Supply Voltage
  (*minimum required)
- Example
  20.0MHz IQXO-540 AUTO
  CMOS ±100ppm –40 to 125C 3.3V

Compliance

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



Outline (mm)



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Packaging Details

- Pack Style: Cutt — In tape, cut from a reel
  Pack Size: 1
- Pack Style: Bulk — Loose in bulk pack
  Pack Size: 100
- Pack Style: Reel — Tape & reel in accordance with EIA-481-D
  Pack Size: 1,000

Electrical Specification - maximum limiting values 3.3V ±10%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
4.0MHz	9.999999MHz	-40 to 85	±25.0	5	5	40/60%
		-40 to 125	±50.0	5	5	40/60%
10.0MHz	19.999999MHz	-40 to 85	±25.0	6	5	40/60%
		-40 to 125	±50.0	6	5	40/60%
20.0MHz	31.999999MHz	-40 to 85	±25.0	7	5	40/60%
		-40 to 125	±50.0	7	5	40/60%
32.0MHz	50.0MHz	-40 to 85	±25.0	8	5	40/60%
		-40 to 125	±50.0	8	5	40/60%

This document was correct at the time of printing; please contact your local sales office for the latest version.
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