

**Customer Part:**



**Description**

- 1.6 x 1.2mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed.
- Model IQXO-984
- Model Issue number 1

**Frequency Parameters**

- Frequency 32.7680kHz
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Frequency Stability: Includes Frequency Tolerance @  $25^\circ\text{C}$ , operating temperature range, supply voltage variation and load variation.

**Electrical Parameters**

- Supply Voltage  $3.3\text{V} \pm 10\%$
- Current Draw (typical)  $0.025\text{mA}$

**Output Details**

- Output Compatibility CMOS
- Drive Capability  $15\text{pF}$  max
- Rise and Fall Time  $200.0\text{ns}$  max
- Duty Cycle 45/55
- Output Voltage Levels:  
Output Low (VoL):  $10\%V_s$  max  
Output High (VoH):  $90\%V_s$  min
- Start Up Time:  $7\text{ms}$  max

**Output Control**

- Stand-by Mode:  
Logic '0' ( $30\%V_s$  max) to pad 1 disables the oscillator output, the output goes to a high impedance state.  
Logic '1' ( $70\%V_s$  min) or no connection to pad 1 enables oscillator output.
- Stand-by Current:  $1.4\mu\text{A}$  typical  $3\mu\text{A}$  max

**Environmental Parameters**

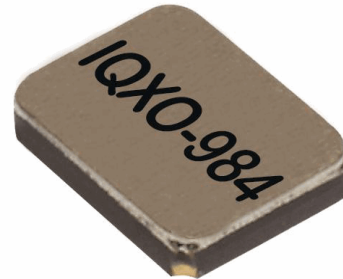
- Storage Temperature Range:  $-40$  to  $85^\circ\text{C}$

**Compliance**

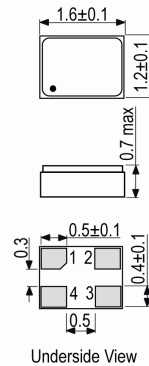
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

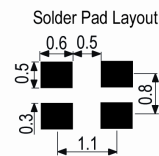
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000
- *Alternative packing option available*



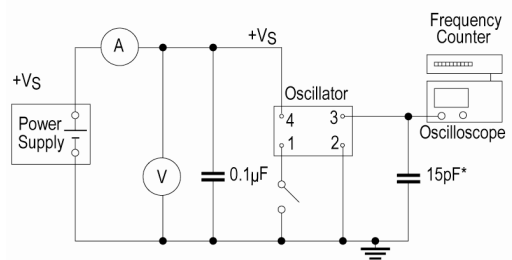
**Outline (mm)**



- Pad Connections**
1. Standby Operation
  2. GND
  3. Output
  4. +Vs



**Test Circuit**



\* Inclusive of jiggging and equipment capacitance

**Sales Office Contact Details:**

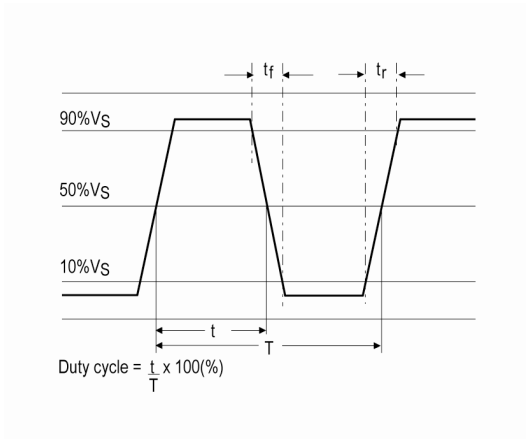
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Wave Form



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