

### Customer Part:



#### Description

- 1.6 x 1.2mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed.
- Model IQXO-985
- Model Issue number 1

#### Frequency Parameters

- Frequency 32.7680kHz
- Frequency Stability  $\pm 30.00\text{ppm}$
- Operating Temperature Range  $-20.00$  to  $70.00^\circ\text{C}$
- Frequency Stability: Includes Frequency Tolerance @  $25^\circ\text{C}$ , operating temperature range, supply voltage variation and load variation.

#### Electrical Parameters

- Supply Voltage  $2.5\text{V} \pm 10\%$
- 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: TBD

#### 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

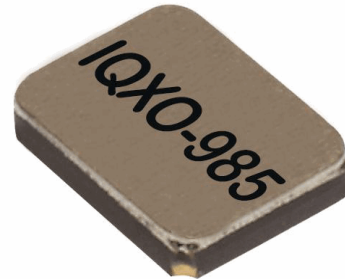
- Storage Temperature Range:  $-40$  to  $85^\circ\text{C}$

#### Compliance

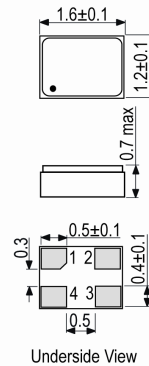
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

#### Packaging Details

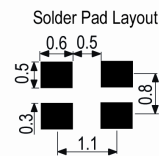
- Pack Style: Cutt In tape, cut from a reel  
Standard Pack Quantity: 100
- Alternative packing option available



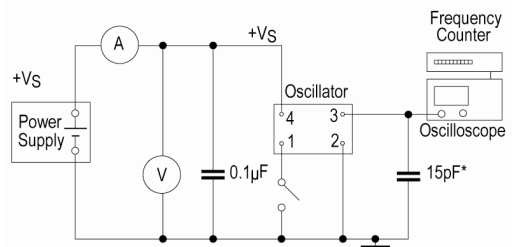
#### Outline (mm)



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



#### Test Circuit



\* Inclusive of jigging and equipment capacitance

#### Sales Office Contact Details:

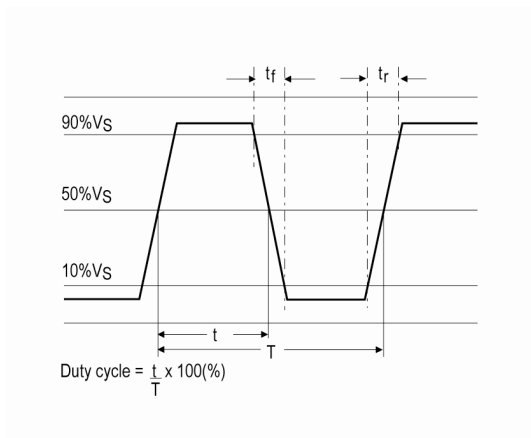
UK: +44 (0)1460 270200

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

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**Customer Part:**

**Wave Form**



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**Sales Office Contact Details:**

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