

### Customer Part:



#### Description

- 1.6 x 1.2mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed.
- Model IQXO-986
- Model Issue number 1

#### Frequency Parameters

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

#### Electrical Parameters

- Supply Voltage 1.8V  $\pm 10\%$
- Current Draw (typ) 0.024mA

#### Output Details

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

#### Output Control

- Stand-by Mode:  
Logic '0' (30%Vs max) to pad 1 disables the oscillator output, the output goes to a high impedance state.  
Logic '1' (70%Vs min) or no connection to pad 1 enables oscillator output.
- Stand-by Current: 1.4µA typical 3µA max

#### Environmental Parameters

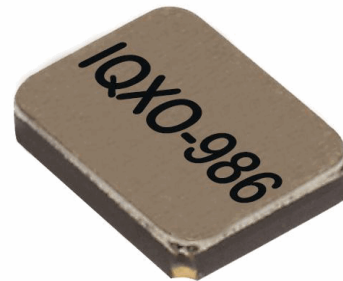
- Storage Temperature Range: -40 to 85°C

#### Compliance

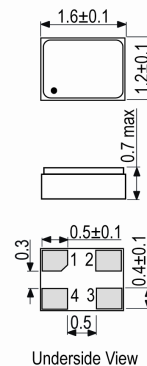
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

#### Packaging Details

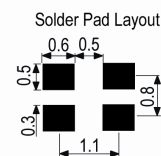
- Pack Style: Cutt In tape, cut from a reel  
Pack Size: 100
- Alternative packing option available



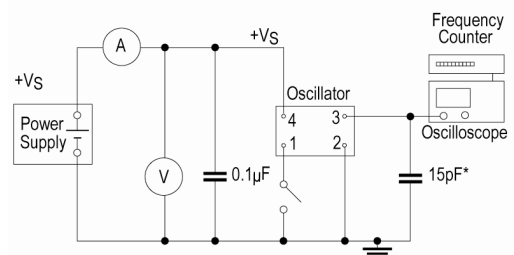
#### Outline (mm)



- Pad Connections
- Standby Operation
  - GND
  - Output
  - +Vs



#### Test Circuit



\* Inclusive of jiggling and equipment capacitance

#### Sales Office Contact Details:

UK: +44 (0)1460 270200

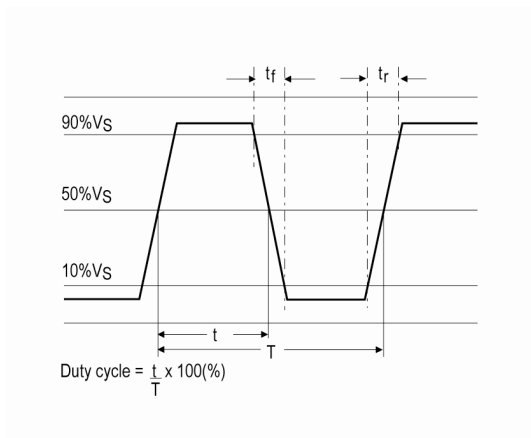
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**Customer Part:**

**Wave Form**



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