



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

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): $10\%V_s$ max
Output High (VoH): $90\%V_s$ min
- Start Up Time: 7ms 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

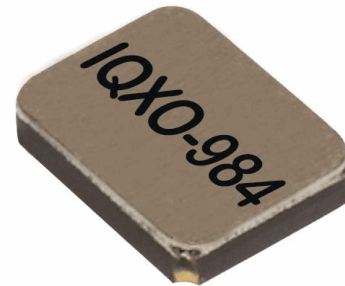
- Storage Temperature Range: -40 to 85°C

Compliance

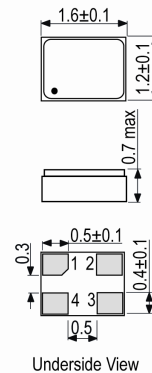
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

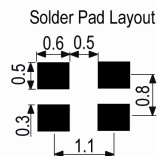
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 3,000
- Alternative packing option available



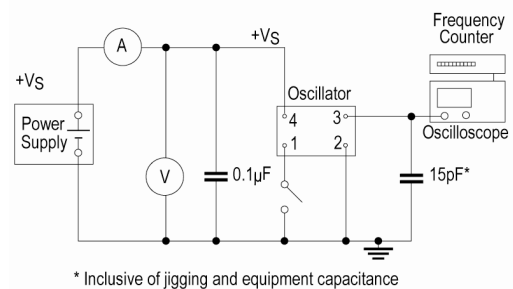
Outline (mm)



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



Test Circuit



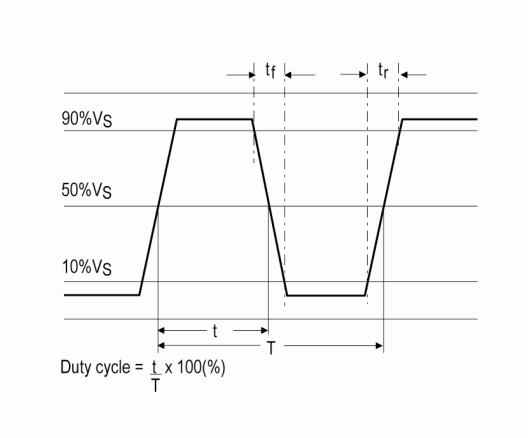
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Wave Form



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