

### Customer Part:



#### Description

- Surface mount oscillator in a ceramic package with a hermetically sealed metal lid
- Model IQXO-71
- Model Issue number 11

#### Frequency Parameters

- Frequency 50.0MHz
- Frequency Stability  $\pm 100.00\text{ppm}$
- Operating Temperature Range  $-10.00$  to  $70.00^\circ\text{C}$
- Ageing  $\pm 5\text{ppm}$  max in 1st year

#### Electrical Parameters

- Supply Voltage  $3.3\text{V} \pm 0.3\text{V}$
- Current Draw  $16.500\text{mA}$

#### Output Details

- Output Compatibility HCMOS
- Drive Capability  $15\text{pF}$  max
- Rise and Fall Time  $6.0\text{ns}$  max
- Duty Cycle 45/55%

#### Output Control

- Tri-state Operation:  
Logic '1' ( $0.7\text{Vs}$  min) to pad 1 enables oscillator output  
Logic '0' ( $0.3\text{Vs}$  max) to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state  
No connection to pad 1 enables oscillator output

#### Environmental Parameters

- Shock: MIL-STD-202F, Method 213B:  $1000\text{G}$ ,  $0.5\text{ms}$ ,  $1/2$  sine
- Vibration: MIL-STD-202F, Method 204D, Test Condition D:  $20\text{G}$ , frequency range  $10\text{-}2000\text{Hz}$   $2\text{hrs}$  in 3 mutually perpendicular planes (total  $6\text{hrs}$ )
- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$

#### Manufacturing Details

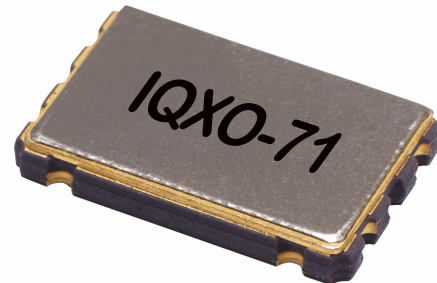
- RoHS Terminations NiAu
- RoHS Reflow Temp  $260\text{degC}$   $10\text{s}$

#### Compliance

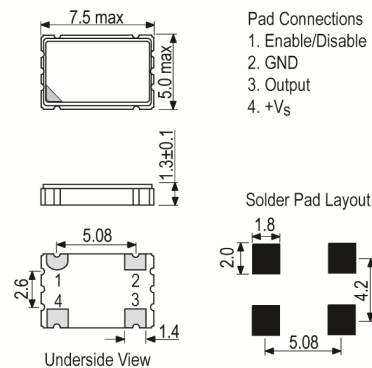
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

#### Packaging Details

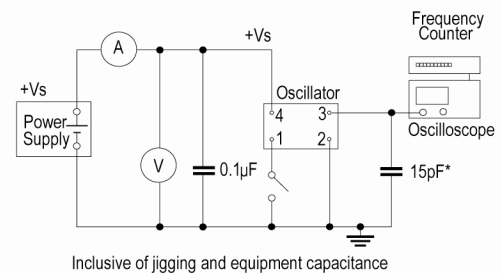
- Pack Style: Bulk Loose in bulk pack  
Pack Size: 100
- Alternative packing option available



#### Outline (mm)



#### Test Circuit



#### Sales Office Contact Details:

UK: +44 (0)1460 270200

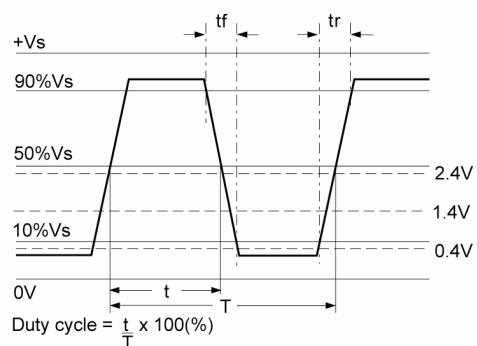
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### Customer Part:

### Wave Form



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