



### Description

- Surface mount oscillator in a ceramic package with a hermetically sealed metal lid
- Model IQXO-70
- Model Issue number 11

### Frequency Parameters

- Frequency 8.0MHz
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $85.00^{\circ}\text{C}$
- Ageing  $\pm 5\text{ppm}$  max in 1st year

### Electrical Parameters

- Supply Voltage  $5.0\text{V} \pm 0.5\text{V}$
- Current Draw  $27.00\text{mA}$

### Output Details

- Output Compatibility HCMOS
- Drive Capability  $50\text{pF}$  max
- Rise and Fall Time  $7.0\text{ns}$  max
- Duty Cycle  $45/55\%$

### Output Control

- Tri-state Operation:  
Logic '1' ( $2.2\text{V}$  min) to pad 1 enables oscillator output  
Logic '0' ( $0.8\text{V}$  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

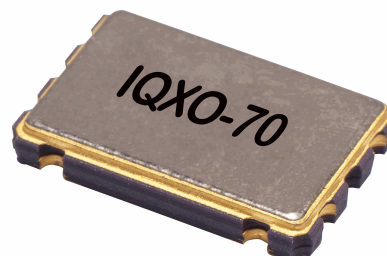
- Shock: MIL-STD-202F, Method 213B:  $1000\text{G}$ ,  $0.5\text{ms}$ ,  $1/2$  sine
- Vibration: MIL-STD-202F, Method 204D, Test Condition D:  $20\text{G}$ , frequency range  $10\text{-}2000\text{Hz}$  2hrs in 3 mutually perpendicular planes (total 6hrs)
- Storage Temperature Range:  $-55$  to  $125^{\circ}\text{C}$

### Compliance

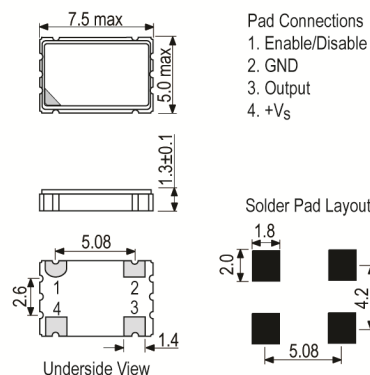
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

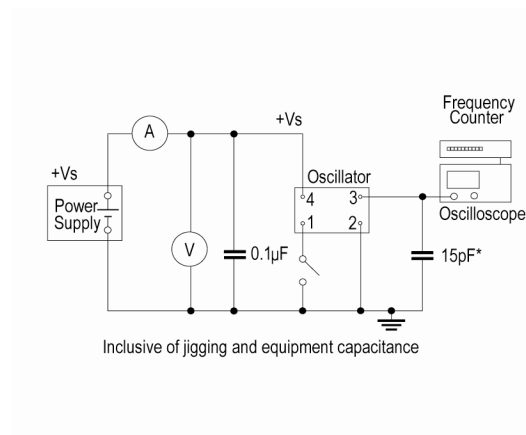
- Pack Style: Bulk Loose in bulk pack  
Pack Size: 100
- Alternative packing option available



### Outline (mm)



### Test Circuit

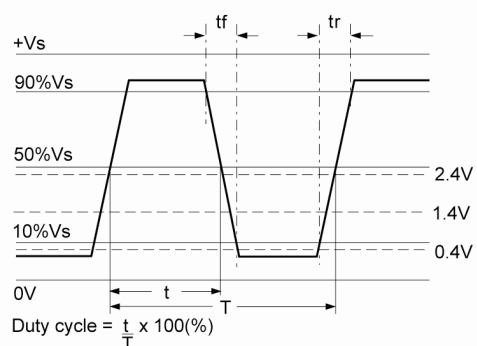


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