

### 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  $\pm 100.00$ ppm
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Ageing  $\pm 5$ ppm max in 1st year

### Electrical Parameters

- Supply Voltage  $3.3\text{V} \pm 0.3\text{V}$
- Current Draw 16.50mA

### Output Details

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

### Output Control

- Tri-state Operation:  
Logic '1' (0.7Vs min) to pad 1 enables oscillator output  
Logic '0' (0.3Vs 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

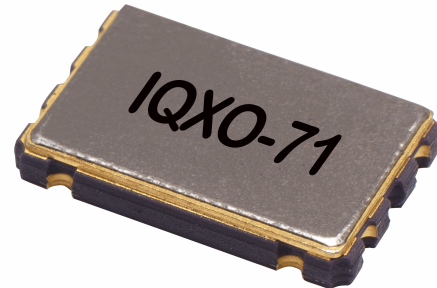
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G, frequency range 10-2000Hz 2hrs in 3 mutually perpendicular planes (total 6hrs)
- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$

### Compliance

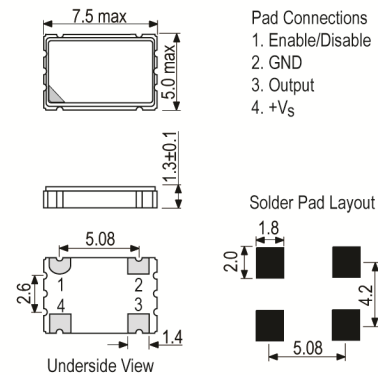
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

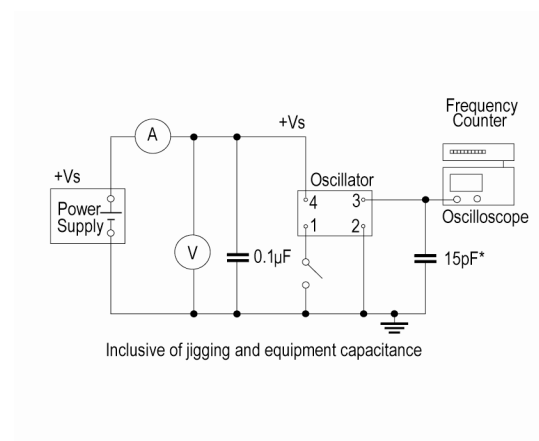
- Pack Style: Cutt Cut Tape
- Pack Size: 1
- Alternative packing option available



### Outline (mm)



### Test Circuit



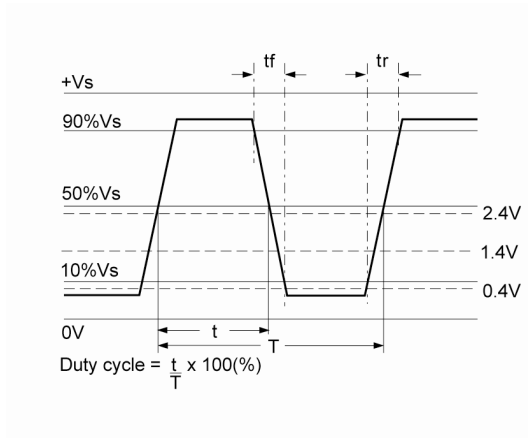
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Wave Form



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