

ISSUE 11; March 2016

### Description

- Surface mount oscillator in a ceramic package with a hermetically sealed metal lid
- Fast Make capability: CFPP-73 series programmable oscillators are the nearest equivalent fast make model



### Frequency Parameters

- Frequency: 12.0kHz to 170.0MHz
- Frequency Stability:  $\pm 25.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing:  $\pm 5\text{ppm}$  max in 1st year

### Electrical Parameters

- Supply Voltage:  $3.3\text{V} \pm 0.3\text{V}$

### Operating Temperature Ranges

- 10 to 70°C
- 40 to 85°C

### Output Details

- Output Compatibility: HCMOS
- Drive Capability: 15pF max

### 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

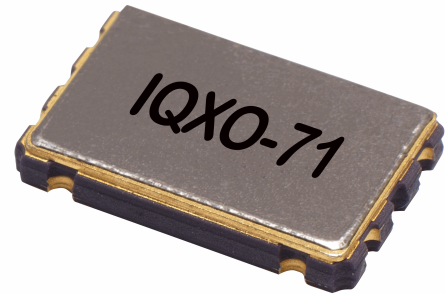
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G, frequency range 10-2000Hz 2hrs in 3 mutually perpendicular planes (total 6hrs)
- Storage Temperature Range: -55 to 125°C

### Ordering Information

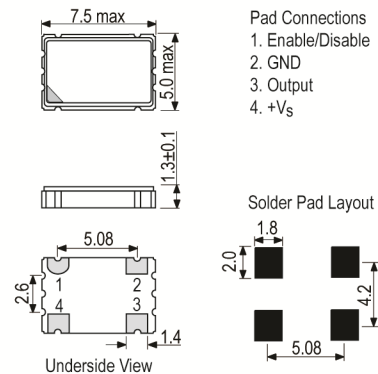
- Frequency\*
- Model\*
- Output
- Frequency Stability (over operating temperature range)\*
- Operating Temperature Range\*
- Supply Voltage
- (\*minimum required)
- Example
  - 20.0MHz IQXO-71
  - HCMOS  $\pm 50\text{ppm}$  -10 to 70C 3.3V

### Compliance

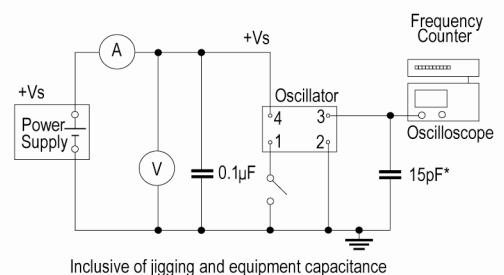
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



### Outline (mm)



### Test Circuit



### Sales Office Contact Details:

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Germany: 0800 1808 443

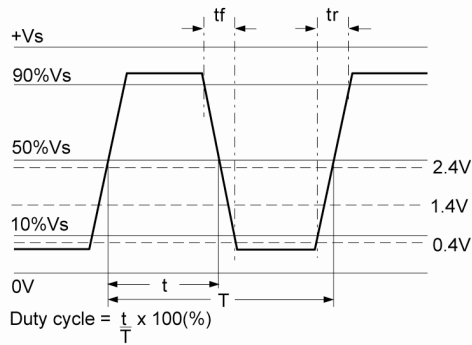
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**Packaging Details**

- Pack Style: Bulk      Loose in bulk pack  
   Pack Size: 100
- Pack Style: Cutt      Cut Tape  
   Pack Size: 1
- Pack Style: Reel      Tape & reel in accordance with EIA-481-D  
   Pack Size: 1,000

**Wave Form**



**Electrical Specification - maximum limiting values 3.3V ±0.3V**

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
12.000kHz	1.544MHz	-10 to 70	±25.0	12	6	45/55%
		-40 to 85	±50.0	12	6	45/55%
1.544001MHz	25.0MHz	-10 to 70	±25.0	12	6	45/55%
		-40 to 85	±50.0	12	6	45/55%
25.000001MHz	32.0MHz	-10 to 70	±25.0	12	6	45/55%
		-40 to 85	±50.0	12	6	45/55%
32.000001MHz	50.0MHz	-10 to 70	±25.0	16.5	6	45/55%
		-40 to 85	±50.0	16.5	6	45/55%
50.000001MHz	67.0MHz	-10 to 70	±25.0	18	6	40/60%
		-40 to 85	±50.0	18	6	40/60%
67.000001MHz	80.0MHz	-10 to 70	±25.0	40	6	40/60%
		-40 to 85	±50.0	40	6	40/60%
80.000001MHz	125.0MHz	-10 to 70	±25.0	40	4	40/60%
		-40 to 85	±50.0	40	4	40/60%
125.000001MHz	170.0MHz	-10 to 70	±25.0	50	3	40/60%
		-40 to 85	±50.0	50	3	40/60%

*This document was correct at the time of printing; please contact your local sales office for the latest version.*

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