



## Description

- Standard 7 x 5mm crystal oscillator  
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-73
- Model Issue number 12

## Frequency Parameters

- Frequency 48.0MHz
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range 0.00 to 70.00°C
- Ageing  $\pm 3\text{ppm per year max}$

## Electrical Parameters

- Supply Voltage 3.3V  $\pm 10\%$
- Current Draw 20.00mA

## Output Details

- Output Compatibility HCMOS
- Drive Capability 50pF max
- Rise and Fall Time 10.0ns max
- Duty Cycle 45/55

## Output Control

- Logic '1' ( $>70\%$  VS) to pad 1 enables oscillator output
- Logic '0' ( $<30\%$  VS) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state
- No connection to pad 1 enables oscillator output
- Standby Current: 10 $\mu\text{A}$  max

## Noise Parameters

- Phase Noise @125MHz (typical):
  - 10Hz -54dBc
  - 100Hz -92dBc
  - 1kHz -130dBc
  - 10kHz -149dBc
  - 100kHz -159dBc
  - 1MHz -163dBc
- RMS Phase Jitter @125MHz: 52fs typical

## Environmental Parameters

- Shock: MIL-STD-202, Method 213, Condition E
- Vibration: MIL-STD-883, Method 2007, Condition A
- Storage Temperature Range: -55 to 125°C

## Compliance

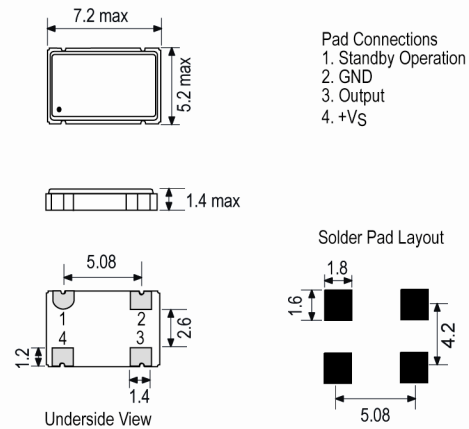
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

## Packaging Details

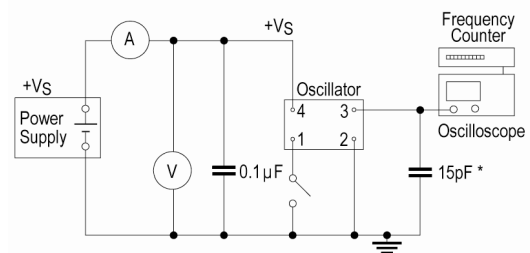
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 1,000
- Alternative packing option available



## Outline (mm)



## Test Circuit



\* Inclusive of jigging and equipment capacitance

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**Wave Form**



**Phase Noise / Jitter**



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