



## 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 **4.0MHz**
- Frequency Stability **±50.00ppm**
- Operating Temperature Range **-40.00 to 85.00°C**
- Ageing **±3ppm per year max**

## Electrical Parameters

- Supply Voltage **3.3V ±10%**
- Current Draw **7.00mA**

## 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: **10µA 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

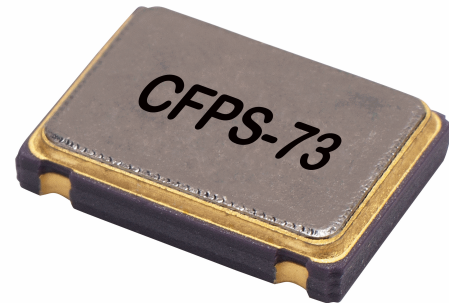
- Shock: MIL-STD-202, Method 213, Condition E
- Vibration: MIL-STD-883, Method 2007, Condition A
- Storage Temperature Range: **-55 to 125°C**

## Compliance

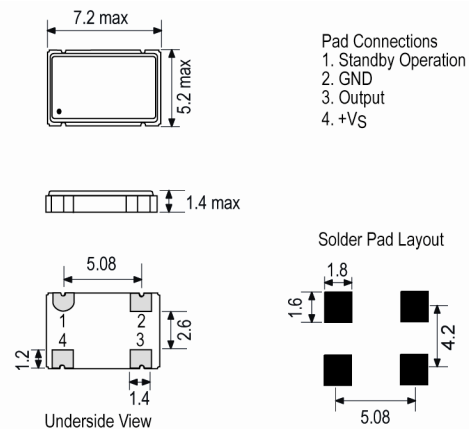
- RoHS Status (2011/65/EU) **Compliant**
- REACH Status **Compliant**
- MSL Rating (JDEC-STD-033): **Not Applicable**

## Packaging Details

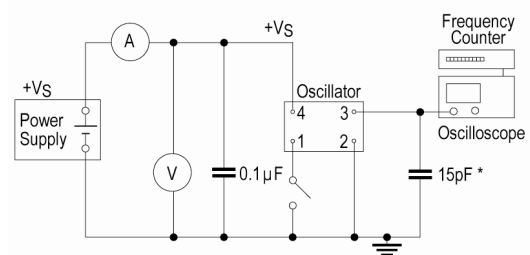
- Pack Style: Reel **Tape & reel in accordance with EIA-481-D**  
Pack Size: **1,000**
- Alternative packing option available*



## Outline (mm)



## Test Circuit



\* Inclusive of jigging and equipment capacitance

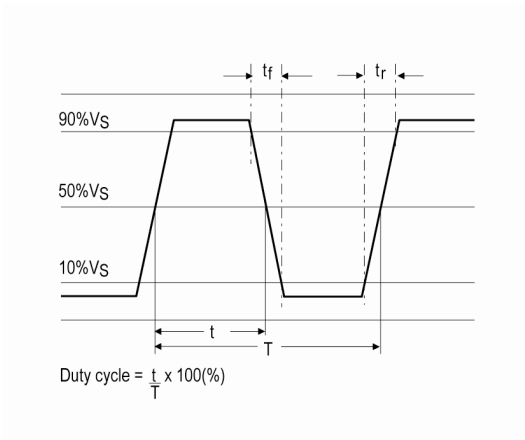
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**Wave Form**



**Phase Noise / Jitter**



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