



**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 **0.00 to 70.00°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 **10ns 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**

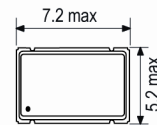
**Packaging Details**

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

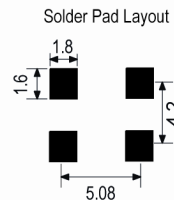
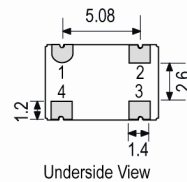
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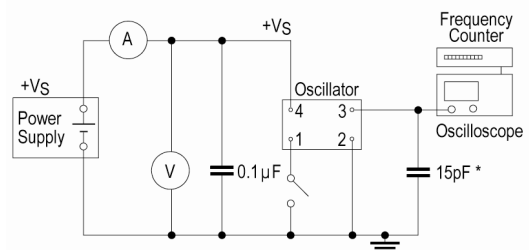
**Outline (mm)**



- Pad Connections  
1. Standby Operation  
2. GND  
3. Output  
4. +VS



**Test Circuit**



\* Inclusive of jigging and equipment capacitance

**Sales Office Contact Details:**

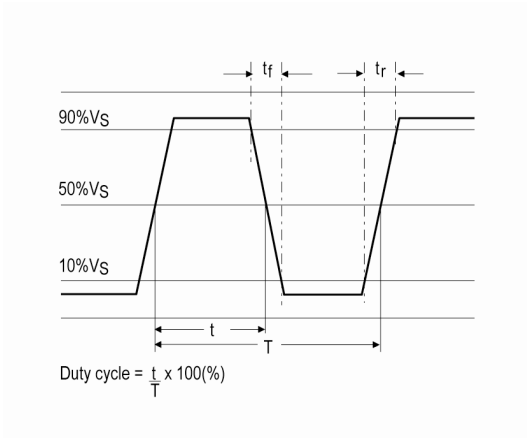
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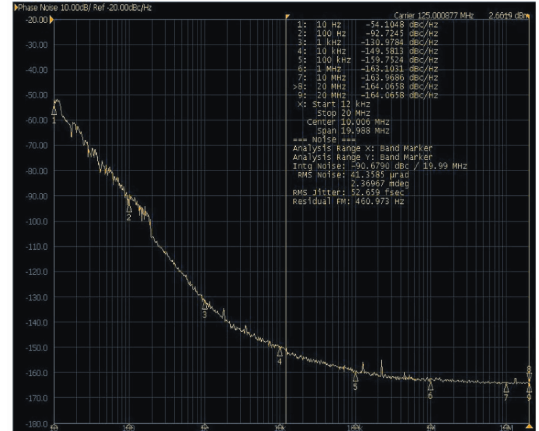
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**Wave Form**



**Phase Noise / Jitter**



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