



**Description**

- Standard 7 x 5mm crystal oscillator  
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model **CFPS-72**
- Model Issue number **12**

**Frequency Parameters**

- Frequency **64.0MHz**
- Frequency Stability **±50.00ppm**
- Operating Temperature Range **0.00 to 70.00°C**
- Ageing **±3ppm per year max**

**Electrical Parameters**

- Supply Voltage **5.0V ±10%**
- Current Draw **50.00mA**

**Output Details**

- Output Compatibility **HCMOS/TTL**
- Drive Capability **30pF max**
- Rise and Fall Time **6ns max**
- Duty Cycle **45/55%**

**Output Control**

- Standby Operation  
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 (@125.0MHz) typical:
  - 10Hz -54dBC/Hz
  - 100Hz -93dBC/Hz
  - 1KHz -131dBC/Hz
  - 10KHz -150dBC/Hz
  - 100KHz -160dBC/Hz
  - 1MHz -163dBC/Hz
  - 10MHz -164dBC/Hz
- Phase Jitter RMS (@:125.0MHz): 53fs typical

**Environmental Parameters**

- Shock: MIL-STD-202, Method 213, Condition E
- Vibration: MIL-STD-883, Method 2007, Condition A

**Compliance**

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

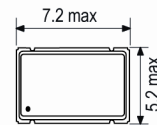
**Packaging Details**

- Pack Style: Bulk **Loose in bulk pack**  
Pack Size: 100
- Alternative packing option available

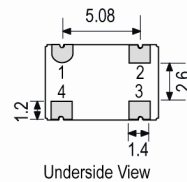
*This document is correct at the time of printing; please contact your local office for the latest version.*



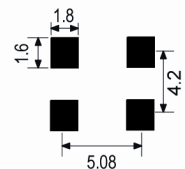
**Outline (mm)**



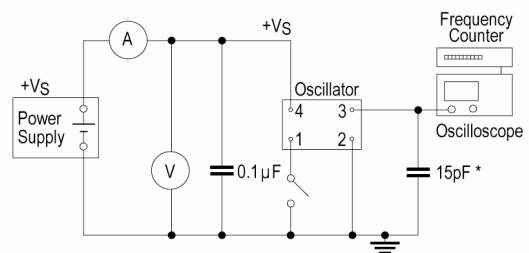
- Pad Connections
- Standby Operation
  - GND
  - Output
  - +VS



**Solder Pad Layout**



**Test Circuit**



\* Inclusive of jigging and equipment capacitance

**Sales Office Contact Details:**

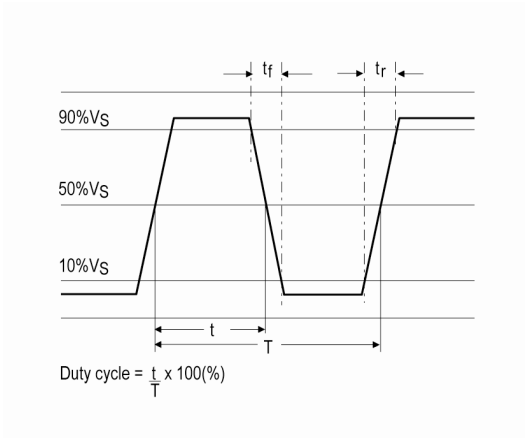
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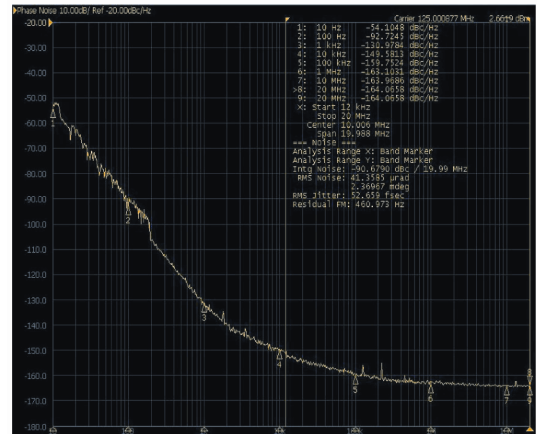
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**Wave Form**



**Phase Noise / Jitter**



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