



**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 4.0MHz
- 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 20.00mA

**Output Details**

- Output Compatibility HCMOS/TTL
- Drive Capability 50pF max
- Rise and Fall Time 10ns 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

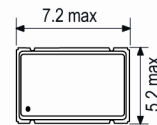
**Packaging Details**

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

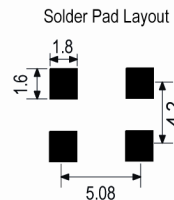
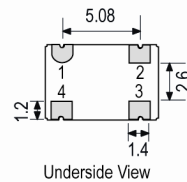
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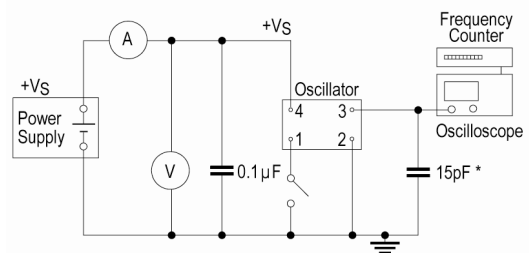
**Outline (mm)**



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



**Test Circuit**



\* Inclusive of jigging and equipment capacitance

**Sales Office Contact Details:**

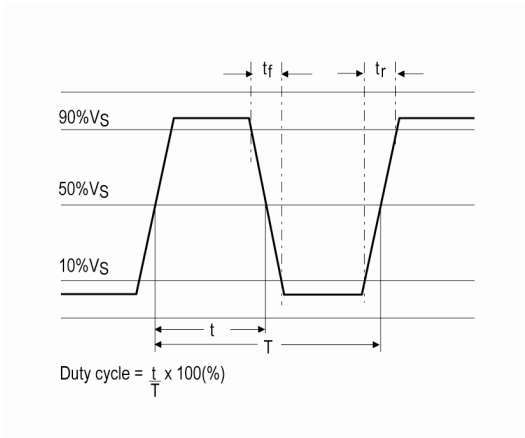
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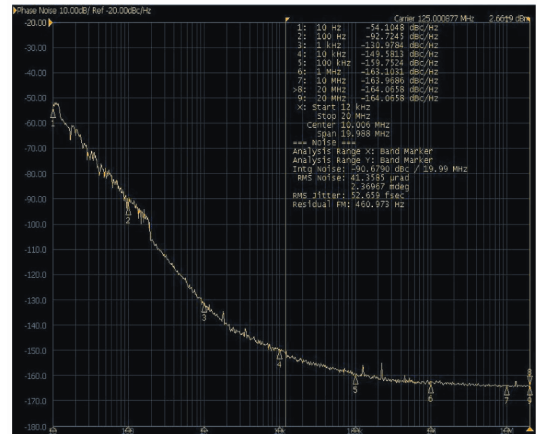
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**Wave Form**



**Phase Noise / Jitter**



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