


**Description**

- 5 x 3.2 crystal oscillator  
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-12
- Model Issue number 7

**Frequency Parameters**

- Frequency 48.0MHz
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Ageing  $\pm 3\text{ppm}$  max per year @  $25^\circ\text{C}$

**Electrical Parameters**

- Supply Voltage  $5.0\text{V} \pm 0.5\text{V}$
- Current Draw  $45.000\text{mA}$

**Output Details**

- Output Compatibility CMOS
- Drive Capability  $15\text{pF}$  max
- Rise and Fall Time  $6.0\text{ns}$  max
- Duty Cycle 40/60%

**Output Control**

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

**Environmental Parameters**

- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

**Manufacturing Details**

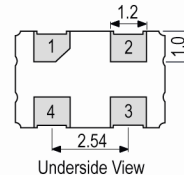
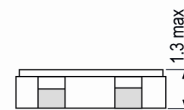
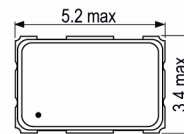
- RoHS Terminations NiAu
- RoHS Reflow Temp  $260\text{degC}$  10s

**Compliance**

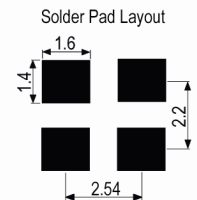
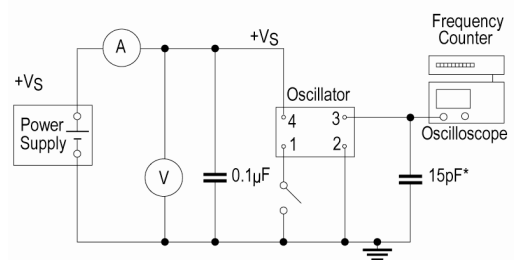
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

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


**Outline (mm)**


- Pad Connections
1. Enable/Disable
  2. GND
  3. Output
  4. +Vs


**Test Circuit**


\* Inclusive of jigging and equipment capacitance

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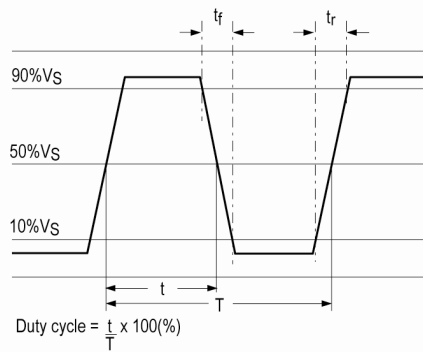
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Wave Form



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