


**Description**

- Low supply current crystal oscillators  
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-69
- Model Issue number 5

**Frequency Parameters**

- Frequency 6.0MHz
- Frequency Stability ±50.00ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing ±3ppm max per year

**Electrical Parameters**

- Supply Voltage 3.3V ±5%
- Current Draw 4.50mA
- Standby Current: 1µA max

**Output Details**

- Output Compatability CMOS
- Drive Capability 15pF max
- Rise and Fall Time 12.0ns 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; when the oscillator output goes to the high impedance state  
No connection to pad 1 enables oscillator output

**Environmental Parameters**

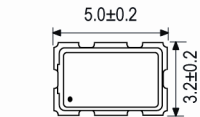
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

**Compliance**

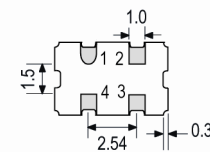
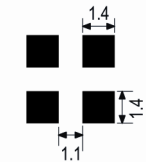
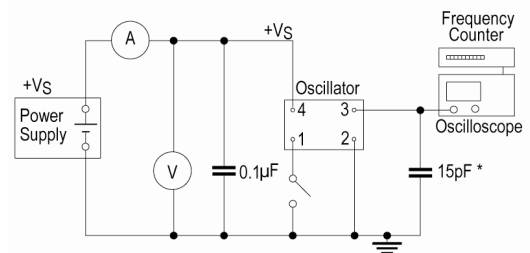
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

- Pack Style: *Cutt* In tape, cut from a reel  
Pack Size: 1
- *Alternative packing option available*


**Outline (mm)**


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


**Solder Pad Layout**

**Test Circuit**


\* Inclusive of jigging and equipment capacitance

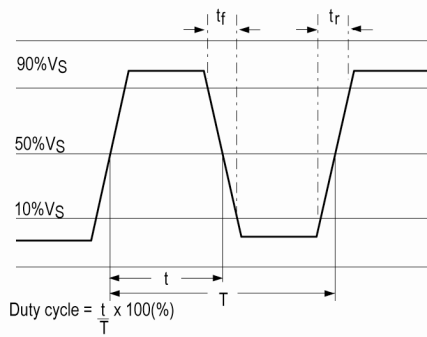
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**Wave Form**



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