



Description

- Standard 5 x 3.2mm crystal oscillator
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-37
- Model Issue number 7

Frequency Parameters

- Frequency 50.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -10.00 to 70.00°C
- Ageing $\pm 3\text{ppm}$ max per year

Electrical Parameters

- Supply Voltage $2.5\text{V} \pm 5\%$
- Current Draw 20.000mA

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF
- Rise and Fall Time 5.0ns max
- Duty Cycle $45/55\%$
- Logic '1' ($>70\%$ VS) to pad 1 enables oscillator output.
Logic '0' ($<30\%$ VS) to pad 1 disables oscillator output and 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

- 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).
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

- RoHS Terminations NiAu
- RoHS Reflow Temp 260degC 10s

Compliance

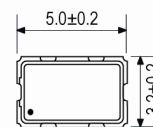
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

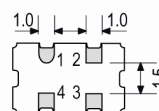
- Tape & reel in accordance with EIA-481
Quantities below the standard reel size to be supplied on cut tape
Standard Pack Quantity: $1,000$



Outline (mm)

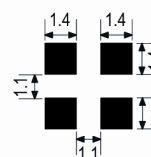


- Pad Connections
- Standby Operation
 - GND
 - Output
 - +VS

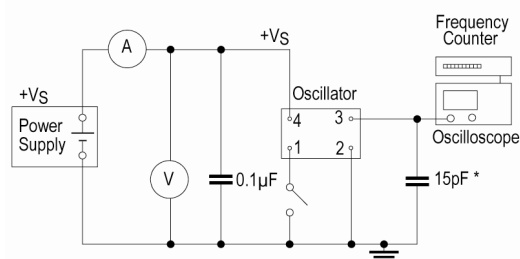


Underside View

Solder Pad Layout



Test Circuit



* Inclusive of jigging & equipment capacitance

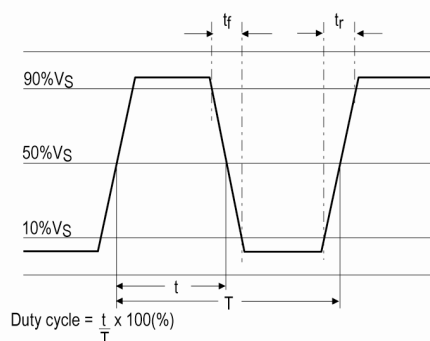
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Wave Form



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