


Description

- Surface mount 3.2 x 2.5mm crystal oscillator in a hermetically sealed ceramic package with a seam sealed metal lid.
- Model: CFPS-39
- Model Issue number: 6

Frequency Parameters

- Frequency: 100.0MHz
- Frequency Stability: $\pm 25.00\text{ppm}$
- Operating Temperature Range: -40.00 to 85.00°C
- Ageing: $\pm 3\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Supply Voltage: $3.3\text{V} \pm 10\%$
- Current Draw: 30.000mA

Output Details

- Output Compatibility: CMOS
- Drive Capability: 15pF max
- Rise and Fall Time: 5.0ns max
- Duty Cycle: $40/60\%$
- Start-Up Time: 10ms max.
 0.7ms typ to 90% of final amplitude (under ideal conditions @ 25°C)

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 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°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

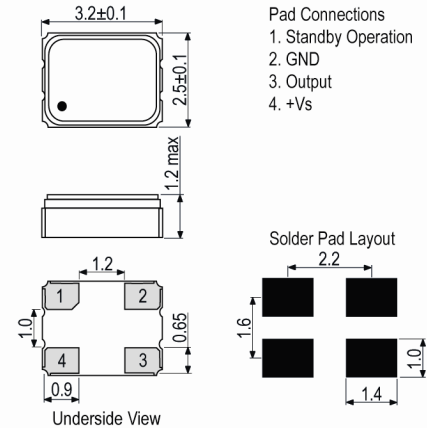
- RoHS Terminations: NiAu
- RoHS Reflow Temp: 260degC max for 10s max

Compliance

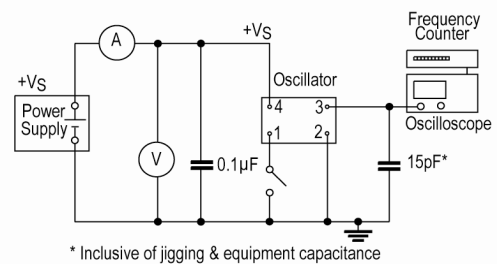
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: RL3K Tape & reel in accordance with EIA-481-D
Pack Size: 3,000
- Alternative packing option available


Outline (mm)


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

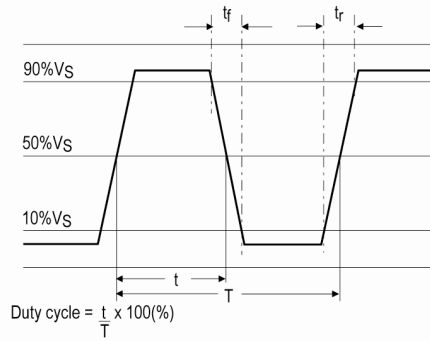
Test Circuit

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Wave Form



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