


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 5

Frequency Parameters

- Frequency 50.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- 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 20.000mA

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns 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 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
 Start-Up Time: 10ms 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

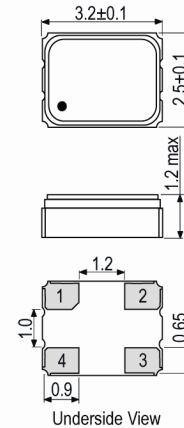
- Maximum Process Temperature: 260°C (10secs max)
- RoHS Terminations NiAu
- RoHS Reflow Temp 260degC 10s

Compliance

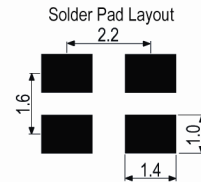
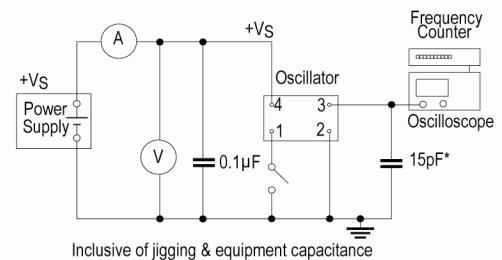
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

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

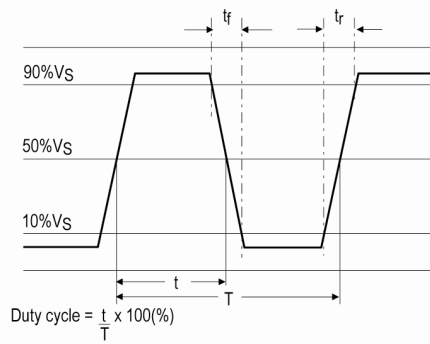

Test Circuit

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Wave Form



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