



Description

- Standard 3.2 x 2.5mm crystal oscillator
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model: CFPS-39
- Model Issue number: 4

Frequency Parameters

- Frequency: 24.0MHz
- 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: 12.00mA

Output Details

- Output Compatibility: CMOS
- Drive Capability: 15pF max
- Rise and Fall Time: 5ns 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 μA 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)

Compliance

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

Packaging Details

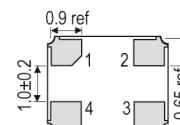
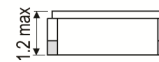
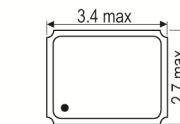
- Pack Style: Bulk Loose in bulk pack
- Pack Size: 100

- Alternative packing option available

This document is correct at the time of printing; please contact your local office for the latest version.



Outline (mm)

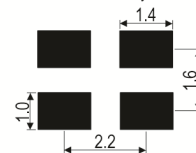


Underside View

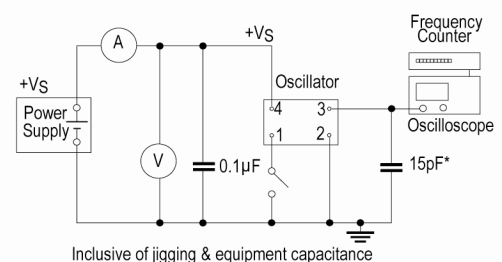
Pad Connections

- Standby Operation
- GND
- Output
- +Vs

Solder Pad Layout



Test Circuit



Inclusive of jigging & equipment capacitance

Sales Office Contact Details:

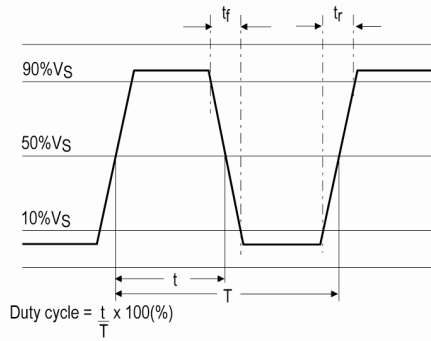
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Wave Form



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