


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 16.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 3\text{ppm max per year @ } 25^\circ\text{C}$

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 10\%$
- Current Draw 7.00mA

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' ($>70\% \text{ VS}$) to pad 1 enables oscillator output
Logic '0' ($<30\% \text{ VS}$) 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

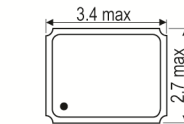
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G , 0.5ms , $1/2$ sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G ($10\text{Hz}-2000\text{Hz}$), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Compliance

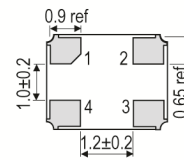
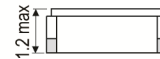
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

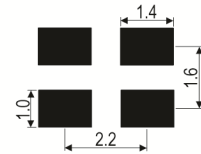
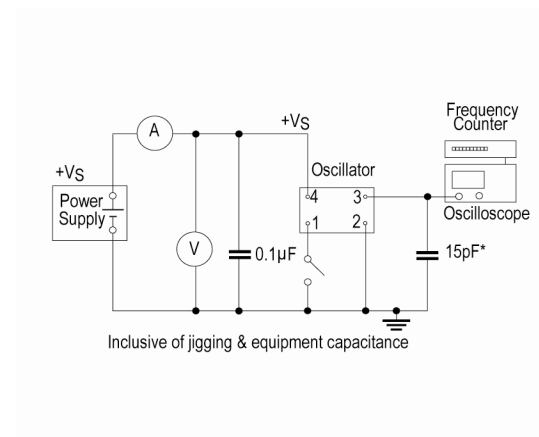
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- *Alternative packing option available*


Outline (mm)


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



Underside View

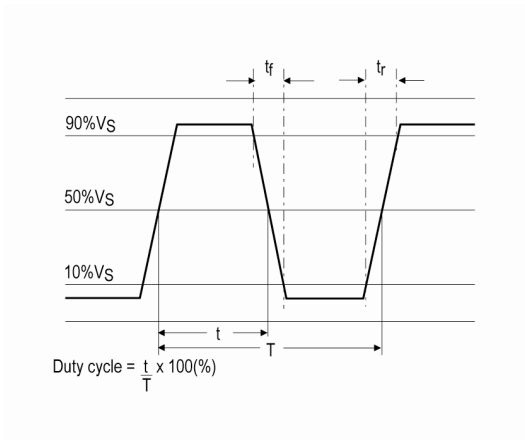
Solder Pad Layout

Test Circuit

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Wave Form



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