

CFPS-39

ISSUE 1; 19 OCTOBER 2004

Delivery Options

- Please contact our sales office for current leadtimes

Description

- The CFPS-39 is a 3.3V, ultra miniature surface mount oscillator with a HCMOS output

Output Compatibility

- Tri-state HCMOS
- Drive Capability 15pF max

Package Outline

- 3.2 x 2.5mm SMD Package

Frequency Range

- 1.80 to 50.0MHz

Frequency Stabilities

- $\pm 25\text{ppm}$, $\pm 50\text{ppm}$, $\pm 100\text{ppm}$
(inclusive of supply voltage & output load variations over the operating temperature range)

Operating Temperature Ranges

- -10 to 70°C (CFPS-39)
- -40 to 85°C (CFPS-39I)

Storage Temperature Range

- -55 to 125°C

Tri-state Operation

- Logic '1' to pad 1 enables oscillator output ($\geq 70\% V_s$)
- Logic '0' to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state ($\leq 30\% V_s$)
- No connection to pad 1 enables oscillator output

Solder Conditions

- For typical soldering conditions, please see the relevant pages in Applications Notes

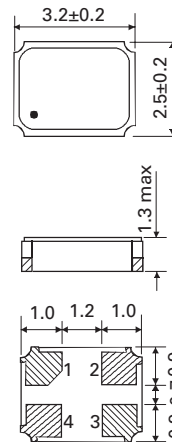
Marking

- Frequency

Minimum Order Information Required

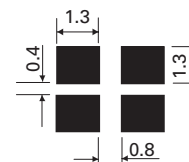
- Frequency + Model Number + Operating Temperature Code (if applicable) + Frequency Stability

Outline in mm

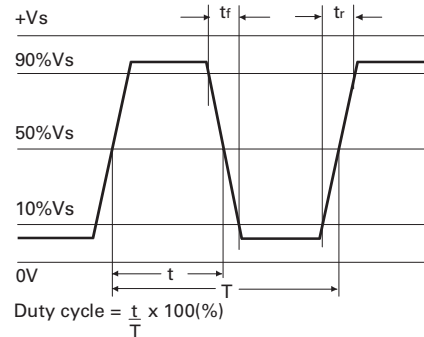


Pad Connections

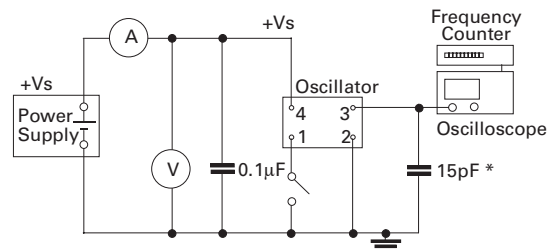
1. Enable/Disable
2. GND
3. Output
4. +Vs



Output Waveform



Test Circuit - HCMOS



* Inclusive of jiggging & equipment capacitance

SURFACE MOUNT
SPXOs



Electrical Specification - maximum limiting values when measured in HCMOS test circuit

Frequency Range	Frequency Stability	Supply Voltage	Supply Current	Rise Time (tr)	Fall Time (tf)	Duty Cycle	Model Number
1.80 to 50.0MHz	±25ppm*, ±50ppm, ±100ppm	3.3V±10%	20mA	6ns	6ns	45/55%	CFPS-39 CFPS-39I
<p>Ordering Example</p> <p>Frequency _____ 24.0MHz _____ CFPS-39 _____ I _____ C _____</p> <p>Model No _____</p> <p>Operating Temperature Code: I = -40 to 85°C: Not applicable for -10 to 70°C _____</p> <p>Frequency Stability: A = ±25ppm, B = ±50ppm, C = ±100ppm _____</p> <p>*Note - Code IA, ±25ppm over -40 to 85°C is not available</p>							

SURFACE MOUNT
SPX08

Please note that the rise and fall times listed are the maximum values we specify to cover various frequency breaks. In practise the actual values are generally lower depending upon the spot frequency chosen. For typical values please contact our sales office.

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