

CFPS-67, -68, -69

ISSUE 1; 20 APRIL 2006

Delivery Options

- Please contact our sales office for current leadtimes

Output Compatibility

- Tri-state CMOS
- Drive Capability 15pF max

Package Outline

- 5.0 × 3.2 × 0.95mm SMD Ceramic Package

Standard Frequency Stabilities

- ±25ppm, ±50ppm, ±100ppm (inclusive of supply voltage & output load variations over the operating temperature range)

Operating Temperature Ranges

- -10 to 70°C (CFPS-67, -68, -69)
- -40 to 85°C (CFPS-67I, -68I, -69I)

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 the oscillator output goes to the high impedance state ($\leq 30\% V_s$)
- No connection to pad 1 enables oscillator output
- Standby current 1µA max

Solder Conditions

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

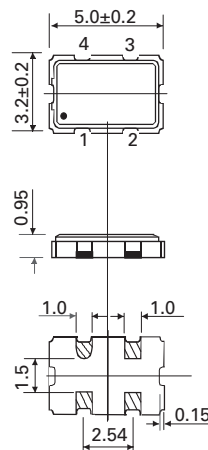
Marking

- Model number
- Frequency

Minimum Order Information Required

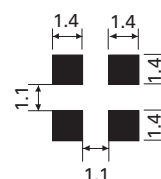
- Frequency + Model Number + Operating Temperature Code (if applicable) + Frequency Stability

Outline in mm

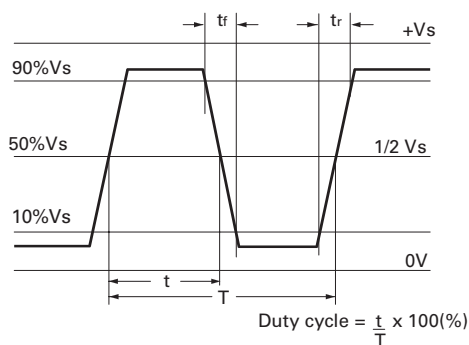


Pad Connections
1. Enable/Disable
2. GND
3. Output
4. +Vs

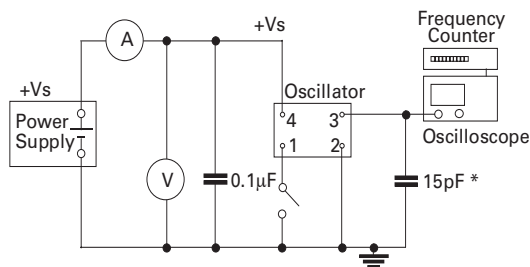
Solder pad layout



Output Waveform



Test circuit



* Inclusive of jigging & equipment capacitance

Electrical Specification - maximum limiting values when measured in test circuit

Frequency Range	Frequency Stabilities	Supply Voltage	Supply Current	Rise Time (tr)	Fall Time (tf)	Duty Cycle	Model Number
1.8 to <32.0MHz	$\pm 25\text{ppm}^*$, $\pm 50\text{ppm}$, $\pm 100\text{ppm}$	2.5V $\pm 5\%$	1.5mA	12ns	12ns	45/55%	CFPS-67
32.0 to 50.0MHz			2.5mA				CFPS-67I
1.8 to <32.0MHz		2.8V $\pm 5\%$	2.0mA				CFPS-68
32.0 to 50.0MHz			3.0mA				CFPS-68I
1.8 to <32.0MHz		3.3V $\pm 5\%$	2.5mA				CFPS-69
32.0 to 50.0MHz			3.5mA				CFPS-69I

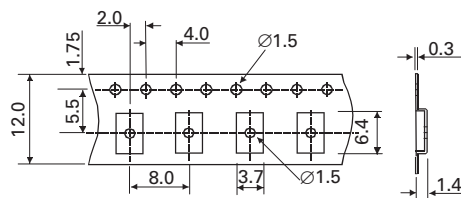
Ordering Example

Frequency 24.0MHz
 Model No. CFPS-69 I C
 Operating Temperature Code: I = -40 to 85°C, Not applicable for -10 to 70°C
 Frequency Stability: A = $\pm 25\text{ppm}$, B = $\pm 50\text{ppm}$, C = $\pm 100\text{ppm}$

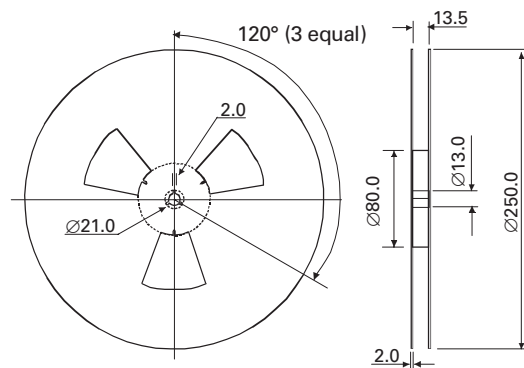
*Note - Code IA, $\pm 25\text{ppm}$ over -40 to 85°C is not available

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.

Outline in mm - Tape



Outline in mm - Reel



SURFACE MOUNT
 SPX08