CFPS-72, -73 Semtech Reference - Stratum 4

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Delivery Options

 Common frequencies are available from stock. Please see stock list or contact sales office

Output Compatibility

- Tri-state HCMOS/TTL (5.0V) (CFPS-72), Load 15pF max
- Tri-state HCMOS (3.3V) (CFPS-73), Load 15pF max

Package Outline

 7.0 x 5.0mm SMD Ceramic Package. Available over 0 to 70°C (CFPS-72, -73) or -40 to 85°C (CFPS-72I, -73I)

Standard Frequency Stabilities

 ±20ppm, ±25ppm, ±50ppm, ±100ppm (inclusive of supply voltage & output load variations over the operating temperature range)

Operating Temperature Range

- 0 to 70°C (CFPS-72, -73)
- –40 to 85°C (CFPS-72I, -73I)

Storage Temperature Range

■ -55 to 125°C

Tri-state Operation

- Logic '1' to pad 1 enables oscillator output, 2.2V min
- Logic '0' to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state, 0.8V max
- No connection to pad 1 enables oscillator output

Solder Conditions

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

Marking

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

Minimum Order Information Required

- Frequency + Model Number + Operating Temperature Code (if applicable) + Frequency Stability
- Please refer to our programmable oscillator chapter for fast make products





Pad Connections



Output Waveform

1.4



Frequency	Frequency	Supply Voltage	Supply Current	Rise Time(tr)	Fall Time (tf)	Duty Cycle	Model Number
Range	Stability						
1.25 to 35.0MHz			15mA	6ns	6ns		
>35.0 to 70.0MHz			30mA	6ns	6ns		
>70.0 to 106.25MHz	±20ppm, ±25ppm, ±50ppm, ±100ppm	3.3V	40mA	6ns	6ns	40/60%	CFPS-73,
>106.25 to 120.0MHz			40mA	6ns	6ns		CFPS-73I
>120.0 to 125.0MHz			40mA	6ns	6ns		
>125.0 to 160MHz			40mA	6ns	6ns		
1.25 to 20.0MHz			20mA	6ns	6ns	40/00/0	
>20.0 to 35.0MHz			30mA	6ns	6ns		
>35.0 to 70.0MHz	±25ppm, ±50ppm ±100ppm	5.0V	50mA	6ns	6ns		CFPS-72,
>70.0 TO 100.0MHz			70mA	6ns	6ns		CFPS-72I
>100.0 to 125.0MHz			70mA	6ns	6ns		
>125.0 to 160.0MHz			70mA	6ns	6ns		
Ordering Example 24.0MHz CFPS-731 C							
Frequency							
Model No							
Operating Temperature Code: I = -40 to 85°C; Not applicable for 0 to 70°C							
Frequency Stability: A = ±25ppm; B = ±50ppm; C = ±100ppm; G = ±20ppm							

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

Test Circuit - HCMOS



* Inclusive of jigging & equipment capacitance







*Inclusive of jigging & equipment capacitance Note: CFPS-72, 72I only

Outline in mm - Reel

