CFPS-72, -73

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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

SURFACE MOUNT SPXOs

- 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

2. GND 3. Output

4. +Vs

1. N/C or Enable/Disable

Solder pad layout

Output Waveform





Outline in mm

ſВ

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

| Frequency | Frequency Stability | Supply Voltage | Supply Current | Rise Time(tr) | Fall Time (tf) | Duty Cycle | Model Number |
|---|------------------------|----------------|----------------|---------------|----------------|------------|--------------|
| 1.25 to 35.0MHz | otability | | 15mA | 6ns | 6ns | | |
| >35.0 to 70.0MHz | ±20ppm, ±25ppm, | | 30mA | 6ns | 6ns | | |
| >70.0 to 106.25MHz | ±50ppm, ±100ppm | 2 2\/ | 40mA | 6ns | 6ns | | CFPS-73, |
| >106.25 to 120.0MHz | | 5.50 | 40mA | 6ns | 6ns | | CFPS-73I |
| >120.0 to 125.0MHz | | | 40mA | 6ns | 6ns | | |
| >125.0 to 160MHz | | | 40mA | 6ns | 6ns | 10/60% | |
| 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, | 5 0V | 50mA | 6ns | 6ns | | CFPS-72, |
| >70.0 to 100.0MHz | ±100ppm | 5.00 | 70mA | 6ns | 6ns | | CFPS-72I |
| >100.0 to 125.0MHz | | | 70mA | 6ns | 6ns | | |
| >125.0 to 160.0MHz | | | 70mA | 6ns | 6ns | | |
| Ordering Example <u>24.0MHz</u> <u>CFPS-731</u> <u>C</u> | | | | | | | |
| 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 | | | | | | | |

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.

Test Circuit - HCMOS



*Inclusive of jigging & equipment capacitance







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



