CFPS-39 SMD CLOCK OSCILLATORS



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Description

 3.3V surface mount oscillator in a ceramic package, with a hermetically sealed metal lid

Fast Make Capability

 Please see CFPP-39 series Programmable Oscillators for nearest equivalent fast make parts

Package Outline

3.2 x 2.5mm

DSCILLATORS

CLOCK

Frequency Range

1.8 to 50MHz

Output Compatibility & Load

- Tri-state HCMOS
- Drive Capability 15pF max

Frequency Stabilities

 ±25ppm, ±50ppm, ±100ppm (Inclusive of supply voltage and 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' (>70% Vs) to pad 1 enables oscillator output
- Logic '0' (<30% 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

10µA max

Start-Up Time

10ms max

Environmental

- Shock: MIL-STD-202F, Method 213B (1000G, 0.5ms, 1/2 sine wave)
- Vibration: MIL-STD-202F, Method 204D test condition D20G, 10-2000Hz, 4hrs in each X, Y, Z axis (total 12 hrs)

Marking Includes

Model Number + Frequency

Packaging

Bulk or Tape and Reel

Minimum Order Information Required

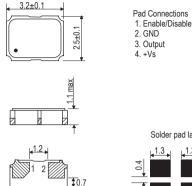
 Frequency + Model Number + Operating Temperature Code (if applicable) + Frequency Stability





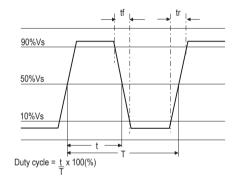
IQD Frequency Products Ltd, Station Road, Crewkerne, Somerset TA18 8AR, United Kingdom Tel: +44 (1460) 270200; Fax: +44 (1460) 72578; Email: info@iqdfrequencyproducts.com Web: www.iqdfrequencyproducts.com

Outline (mm)

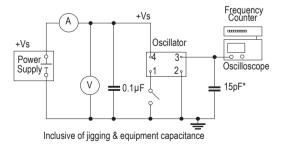




Output Waveform



Test Circuit





Electrical Specifications - maximum limiting values

| 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 |
| Frequency Stability: A = ± | ode: I = -40 to 85°C; not a :25ppm, = ±50ppm, C = ± over -40 to 85°C is not av | 100ppm ——— | 70°C | | | 24.0 | <u>/Hz_CFPS-39</u> <u>C</u> |

Reel (mm)

Tape (mm)

