CFPS-37 SMD CLOCK OSCILLATORS

ISSUE 6; 21 JANUARY 2009 - RoHS 2002/95/EC

Description

- 2.5V surface mount oscillator in a ceramic package, with a hermetically sealed metal lid

Package Outline

- 5 x 3.2mm

Frequency Range

- 1.8 to 125MHz

Output Compatibility & Load

- Tri-state CMOS
- 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-37)
- –40 to 85°C (CFPS-37I)

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 and oscillator output goes to the high impedance state
- No connection to pad 1 enables oscillator output

Standby Current

- 10µA max

Environmental

- Shock: MIL-STD-202F, Method 213B (1000G, 0.5ms)
- Vibration: MIL-STD-202F, Method 204D, Test Condition D20G (10-2000Hz) 4 hrs in X, Y & Z axes (total 12 hrs)

Marking Includes

- Model Number + Frequency

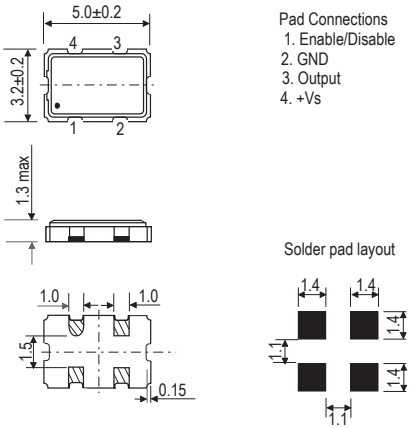
Packaging

- Bulk or Tape and Reel

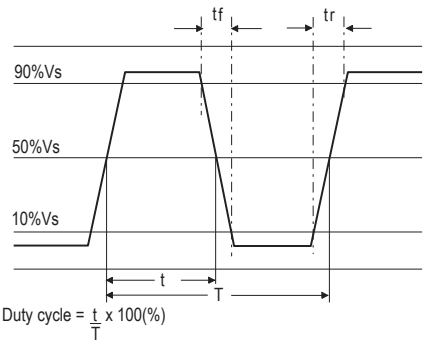
Minimum Order Information Required

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

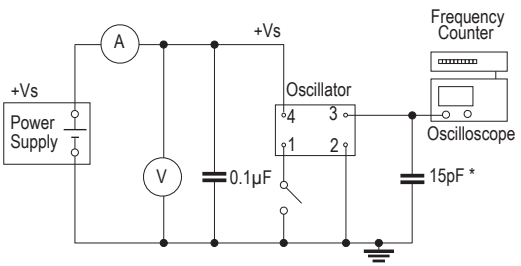
Outline (mm)



Output Waveform



Test Circuit



* Inclusive of jigging & equipment capacitance

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Electrical Specifications - maximum limiting values

Frequency Range	Frequency Stability	Supply Voltage	Supply Current	Rise Time (tr)	Fall Time (tf)	Duty Cycle	Model Number
1.8 to 32.0MHz	±25ppm*, ±50ppm, ±100ppm	2.5V±5%	10mA	5ns	5ns	45/55%	CFPS-37 CFPS-37I
>32.0 to 50.0MHz			20mA				
>50.0 to 80.0MHz						40/60%	
>80.0 to 125.0MHz			30mA	4ns	4ns		

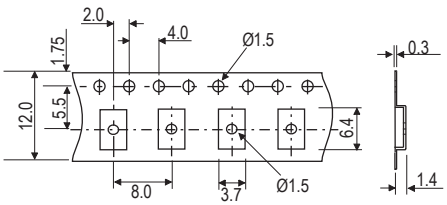
Ordering Example: 10.0MHz CFPS-37 I C

- Frequency
- Model No.
- Operating Temperature Code: I = –40 to 85°C; not applicable for –10 to 70°C
- Frequency Stability: A = ±25ppm, B = ±50ppm, C = ±100ppm

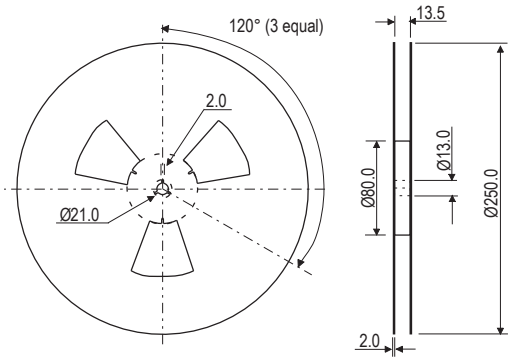
*Note - Code IA, ±25ppm over –40 to 85°C is not available

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

Tape (mm)



Reel (mm)



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