

ECS-P73/P75

Programmable SMD Clock Oscillator

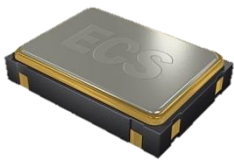


ECS-P73 (3.3V) and ECS-P75 (5V) is a one time programmable crystal controlled oscillator. This 7.0 x 5.0 mm very low profile SMD ceramic package is ideal for small run, quick delivery projects.

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OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

ECS-P73/P75



- Programmable (1 Time)
- 3.3V & 5V Options
- PLL Technology
- Extended temp range
- Industry Standard Footprint
- PbFree/RoHS Compliant

| Parameters | Conditions | ECS-P73 (+3.3V) | | | ECS-P75 (+5V) | | | Units |
|-------------------------------|--------------------------|-----------------|------|---------|---------------|------|--------|--------|
| | | MIN | TYP | MAX | MIN | TYP | MAX | |
| Frequency Range | | 1.000 | | 125.000 | 1.000 | | 150.00 | MHz |
| Operating Temperature | Standard | -10 | | +70 | -10 | | +70 | °C |
| | Extended (N Option) | -40 | | +85 | -40 | | +85 | °C |
| Storage Temperature | | -55 | | +125 | -55 | | +125 | °C |
| Supply Voltage | | +2.97 | +3.3 | +3.63 | +4.5 | +5.0 | +5.5 | VDC |
| Frequency Stability* | Option A | | | ±100 | | | ±100 | PPM |
| | Option B | | | ±50 | | | ±50 | PPM |
| Input Current | | | | 28 | | | 45 | mA |
| Output Disable Current | Pin 1 = VIL | | | 15 | | | 30 | mA |
| Output Symmetry | @ 50% VCC Level | | | 45/55 | | | 45/55 | % |
| Rise and Fall Times | 20% VCC to 80% VCC Level | | | 4 | | | 4 | ns |
| Jitter | 1.0 ~ 33.0 MHz | | ±100 | ±250 | | ±100 | ±250 | pS p-p |
| | > 33.1 MHz | | ±50 | ±100 | | ±50 | ±100 | pS p-p |
| "0" Level | VOL | | | 0.4 | | | 0.4 | VDC |
| "1" Level | VOH | 2.7 | | | VCC-0.5 | | | VDC |
| Output Load (HCMOS) | 1.0 ~ 50.0 MHz | | | 30 | | | 50 | pF |
| | > 50.1 MHz | | | 15 | | | 15 | pF |
| Enable/Disable Time | | | | 150 | | | 100 | ns |
| Start-up Time | | | | 10 | | | 10 | ms |

* Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

Part Numbering Guide: Example ECS-P73-20.000-AN

| ECS | Series | Frequency MHz | Stability | Temperature Range |
|-----|----------------------------|---------------------|-----------------------------|--|
| ECS | P73 = +3.3V P75 = +5.0V | 20.000 = 20.000 MHz | A = ±100 PPM B = ±50 PPM | Blank = -10 ~ +70°C N = -40 ~ +85°C |

Package Dimensions (mm)

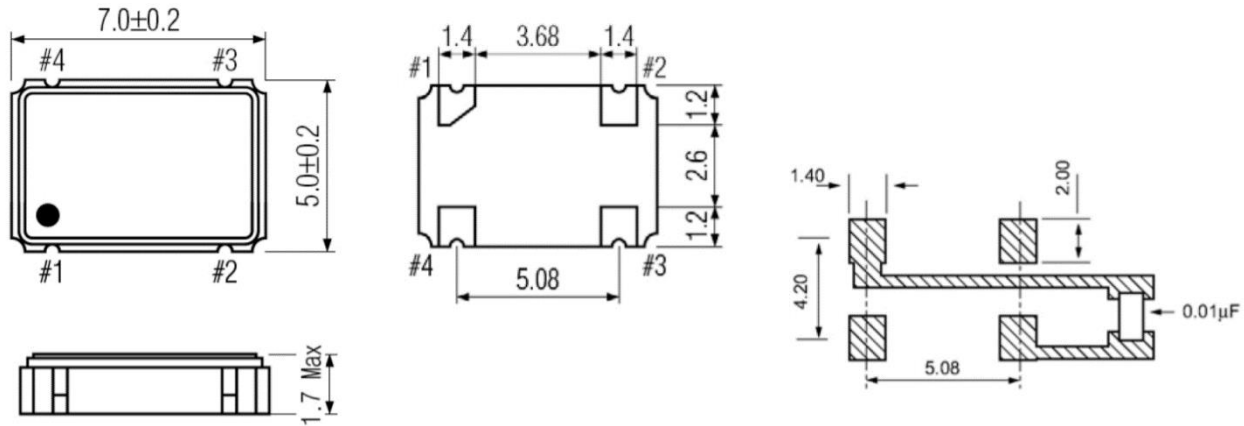


Figure 1) Top, Side, and Bottom views

Figure 2) Land Pattern

| Pin Connections | |
|-----------------|-----------|
| #1 | Tri-State |
| #2 | Ground |
| #3 | Output |
| #4 | VCC |

| ECS-P73 (3.3V) Tri-State Control Voltage | |
|--|----------------|
| Pad 1 | Pad 3 |
| Open | Oscillation |
| +0.7V Min | Oscillation |
| +0.2V Max | High Impedance |

| ECS-P75 (5V) Tri-State Control Voltage | |
|--|----------------|
| Pad 1 | Pad 3 |
| Open | Oscillation |
| +2.0V Min | Oscillation |
| +0.8V Max | High Impedance |

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