

HCMOS 32.768kHz SMD Oscillator



Model: F32K

RoHS Compliant / Pb Free

Rev. 5/28/2010

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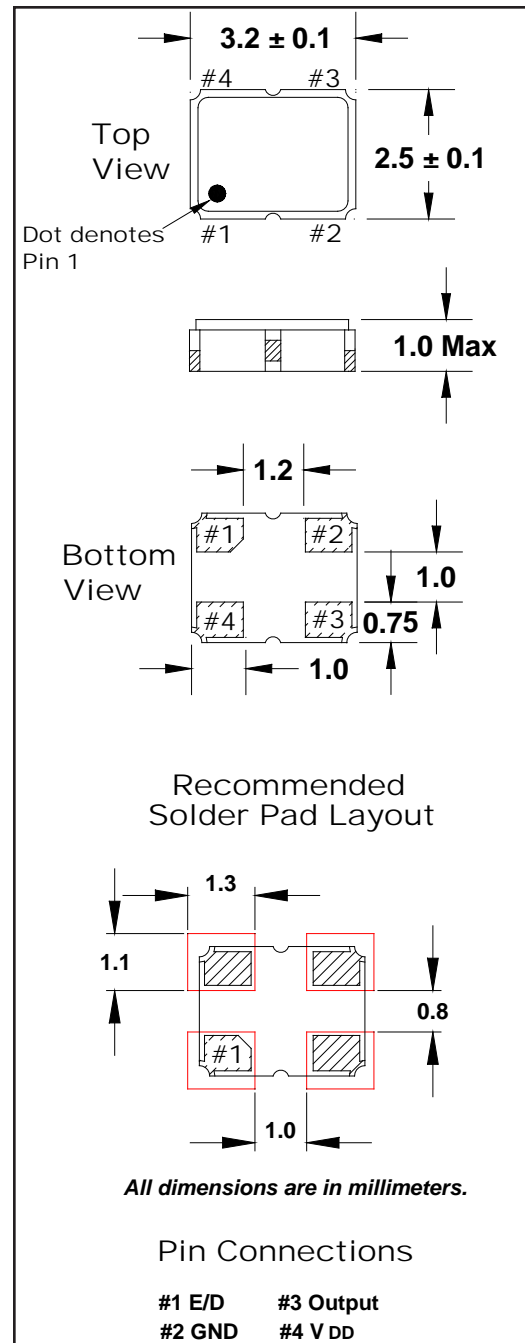
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| PART NUMBER SELECTION Learn More - Internet Required | | | | |
|--|--------------|-------------------------------|----------------------------|-----------------|
| Part Number | Model Number | Frequency Stability | Operating Temperature (°C) | Frequency (kHz) |
| 828-Frequency-xxxxx | F32K | -90 ~ +10PPM -140 ~ +10PPM | -20 ~ +70 -40 ~ +85 | 32.768 |

| ELECTRICAL CHARACTERISTICS | |
|---|---|
| PARAMETERS | MAX (unless otherwise noted) |
| Frequency Range (Fo) | 32.768 kHz |
| Temperature Range | |
| Operating (TOPR) | -40°C ~ +85°C |
| Storage (TSTG) | -55°C ~ +125°C |
| Frequency Tolerance @ 25°C | +5 ± 20 PPM |
| Frequency Stability (ref @ +25°C) | |
| -20°C ~ +70°C | -90 ~ +10 PPM |
| -40°C ~ +85°C | -140 ~ +10 PPM |
| Supply Voltage (VDD) | 3.3V ± 10% (Std.) 1.5V ~ 5.5V (Usable) |
| Input Current (IDD) (no load) | 1.5 µA |
| Output Symmetry (50% VDD) | 40% ~ 60% |
| Rise Time (10% ~ 90% VDD) (TR) | 200nS |
| Fall Time (90% ~ 10% VDD) (TF) | 200nS |
| Output Voltage (CL = 15pF, Ta = +25°C) | |
| (VOL) | 0.4V |
| (VOH) | VDD-0.4V MIN |
| Output Load (HCMOS) | 15 pF |
| Start-up Time (Ts) | |
| (VDD) = 1.5V ~ 5.5V, ta = -40°C ~ +85°C | 1S |
| Maximum Soldering Temp / Time | 260°C / 10 Seconds |
| Moisture Sensitivity level (MSL) | 1 |
| Termination Finish: | Au |

¹ An internal pullup resistor from pin 1 to pin 4 allows active operation if pin 1 is left open.
 Note: A 0.01µF bypass capacitor should be placed between VDD (Pin 4) and GND (Pin 2) to minimize power supply line noise.
 The above specifications, having been carefully prepared and checked, is believed to be accurate at the time of publication; however, no responsibility is assumed by Fox Electronics for inaccuracies. All specifications subject to change without notice.



| ENABLE / DISABLE FUNCTION | |
|---------------------------|----------------|
| (Pin 1) | OUTPUT (Pin 3) |
| OPEN ¹ | ACTIVE |
| '1' Level VIH ≥ 80% VDD | ACTIVE |
| '0' Level VIL ≤ 20% VDD | High Z |

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| • TAPE SPECIFICATIONS (millimeters) | | | | | | | |
|-------------------------------------|------|-----|-----|-----|-----|-----|--------------|
| MODEL | A | B | C | D | E | F | STD Reel QTY |
| F32K | Ø1.5 | 4.0 | 4.0 | 3.5 | 8.0 | 1.4 | 1,000 |

| • REEL SPECIFICATIONS (millimeters) | | | | | | | |
|-------------------------------------|-----|-----|-----|-------|--------|-----|-----|
| MODEL | G | H | I | J | K | L | M |
| F32K | 2.5 | Ø13 | Ø22 | Ø60.2 | Ø178.0 | 8.0 | 1.6 |

