

# HCMOS 32.768kHz SMD Oscillator



Model: F32K

RoHS Compliant / Pb Free

Rev. 5/28/2010

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## • PART NUMBER SELECTION [Learn More](#) - Internet Required

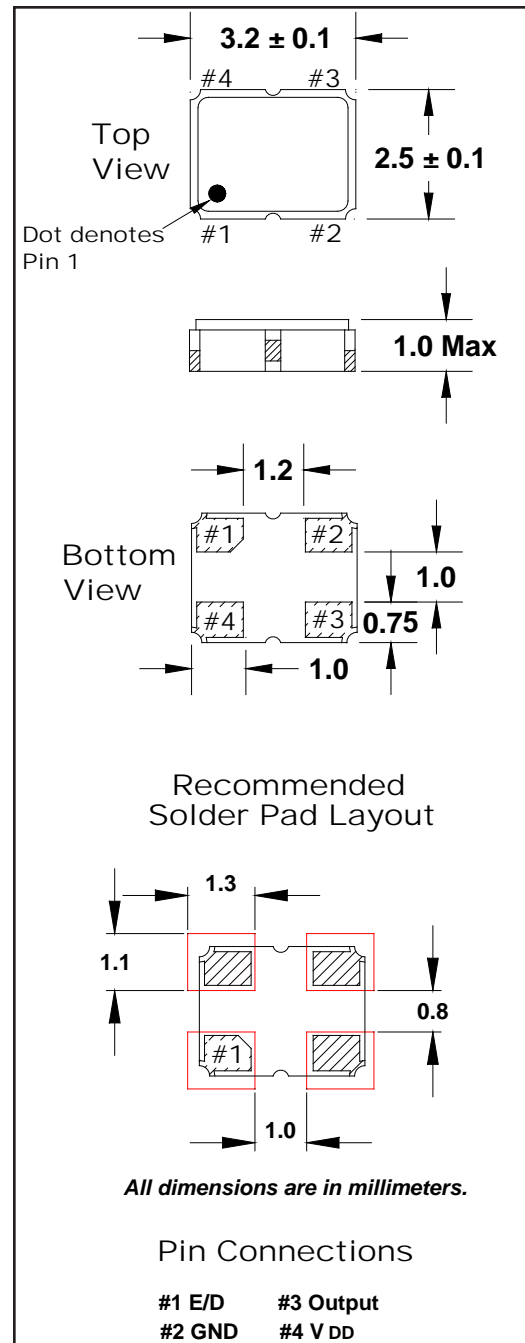
Part Number	Model Number	Frequency Stability	Operating Temperature (°C)	Frequency (kHz)
828-Frequency-xxxxx	F32K	-90 ~ +10PPM -140 ~ +10PPM	-20 ~ +70 -40 ~ +85	32.768

## • 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

<sup>1</sup> 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 <sup>1</sup>	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	∅1.5	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	∅13	∅22	∅60.2	∅178.0	8.0	1.6

