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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## HCMOS 32.768kHz SMD Oscillator



Model: F32K

**RoHS Compliant / Pb Free** 

Rev. 5/28/2010

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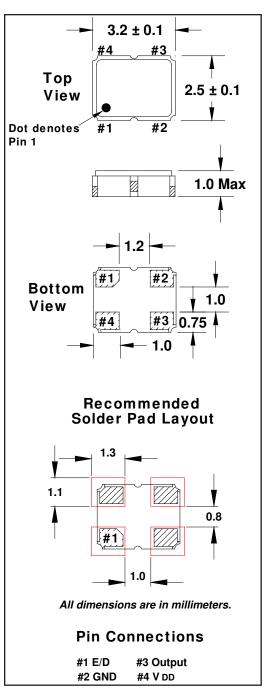


PART NUMBER SELECTION Learn More - Internet Required							
Part Number	rt Number Model Number		Operating Temperature (°C)	Frequency (kHz)			
828-Frequency-xxxxx	F32K	-90 ~ +10PPM - 140 ~ +10PPM	-20 ~ +70 -40 ~ +85	32.768			

• 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)	$3.3V \pm 10\%$ (Std.)						
	1.5V ~ 5.5V (Usable)						
Input Current (IDD) (no load)	1.5 μΑ						
Output Symmety (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)	_						
$(VDD) = 1.5V \sim 5.5V$ , $ta = -40^{\circ}C \sim +85^{\circ}C$	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  $0.01\mu F$  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	Α	В	С	D	Е	F	STD Reel QTY
F32K	Ø1.5	4.0	4.0	3.5	8.0	1.4	1,000

• REEL SPECIFICATIONS (millimeters)								
MODEL	G	Н	ı	J	K	L	М	
F32K	2.5	Ø13	Ø22	Ø60.2	Ø178.0	8.0	1.6	

