

# HCMOS 1.8V 32.768kHz SMD Oscillator



Model: FK215 Series

RoHS/REACH Compliant / Pb Free

Rev. 5/6/2016

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## FEATURES

- Tight Stability
- 1.8V Operation
- HCMOS Output
- Standby Function

## • PART NUMBER SELECTION

Part Number	Model Number	Frequency Stability (PPM)	Operating Temperature (°C)
864K-Frequency-xxxxx	FK215	±50	-20 ~ +70
864L-Frequency-xxxxx	FK215R	±50	-40 ~ +85
864M-Frequency-xxxxx	FK216	±25	-20 ~ +70
864N-Frequency-xxxxx	FK216R	±25	-40 ~ +85
864P-Frequency-xxxxx	FK218	±20	-10 ~ +60

## • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	32.768kHz
Temperature Range	
Operating (TOPR)	See Part Number Selection
Storage (TSTG)	-55°C ~ +125°C
Supply Voltage (VDD)	1.8V ± 10%
Input Current (IDD)	120 µA
Output Symmetry (50% VDD)	45% ~ 55%
Rise Time (10% ~ 90% VDD) (TR)	50 nS
Fall Time (90% ~ 10% VDD) (TF)	50 nS
Output Voltage (VOL)	10% VDD
(VOH)	90% VDD Min
Output Load (HCMOS)	15 pF
Standby Current (ISTD)	10 µA
Start-up Time (TS)	2 mS
Output Disable Time <sup>2</sup>	1 µS
Output Enable Time <sup>2</sup>	2 mS
Aging (@25°C 1 <sup>st</sup> Year)	±3 PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni

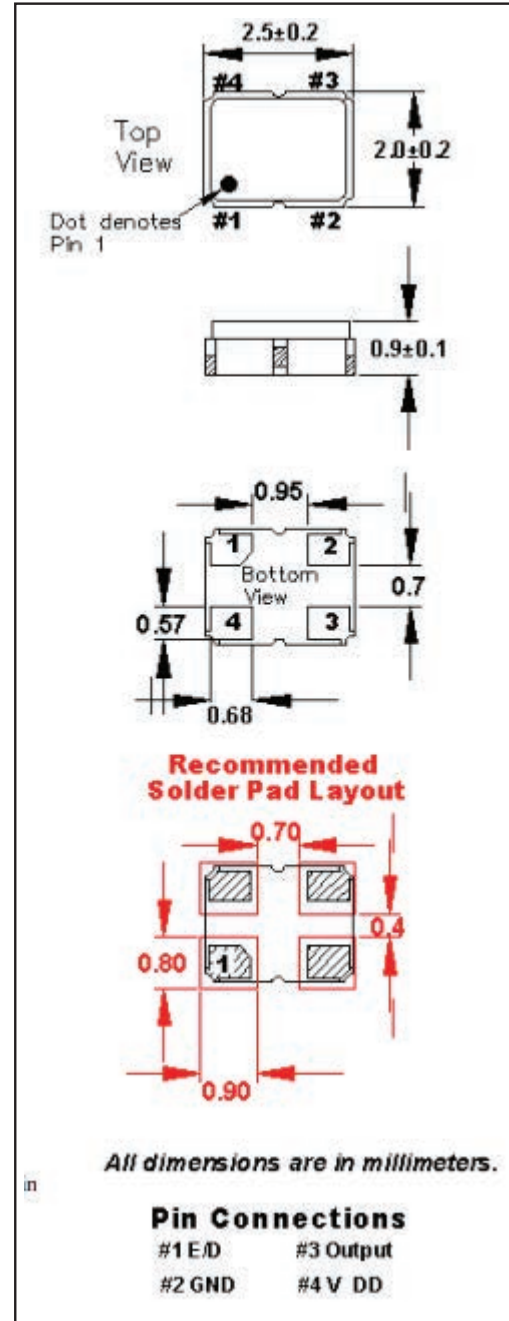
<sup>1</sup> Inclusive of 25°C tolerance after reflow, operating temperature range, supply voltage change and aging.

<sup>2</sup> An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

\*Note: A 0.01µF capacitor should be placed between V<sub>DD</sub> (Pin 4) and GND (Pin 2) to minimize power supply line noise.

\*Drawing is for reference to critical specifications defined by size measurements.

Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary. All specifications subject to change without notice.



## • ENABLE / DISABLE FUNCTION

Pin 1	OUTPUT (Pin 3)
OPEN <sup>2</sup>	ACTIVE
'1' Level V <sub>IH</sub> ≥ 70% V <sub>DD</sub>	ACTIVE
'0' Level V <sub>IL</sub> ≤ 30% V <sub>DD</sub>	High Z