

# HCMOS 2.5V 32.768kHz SMD Oscillator



Model: FK345 Series

RoHS/REACH Compliant / Pb Free

Rev. 7/30/2014

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## FEATURES

- Tight Stability
- 2.5V Operation
- HCMOS Output
- Standby Function

## • PART NUMBER SELECTION

Part Number	Model Number	Frequency Stability(PPM)	Operating Temperature (°C)
861E-Frequency-xxxxx	FK345	±50	-20 ~ +70
861F-Frequency-xxxxx	FK345R	±50	-40 ~ +85
861G-Frequency-xxxxx	FK346	±25	-20 ~ +70
861H-Frequency-xxxxx	FK346R	±25	-40 ~ +85
861J-Frequency-xxxxx	FK348	±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)	2.5V ± 10%
Input Current (IDD)	126 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, operating temperature range, supply voltage change and aging.

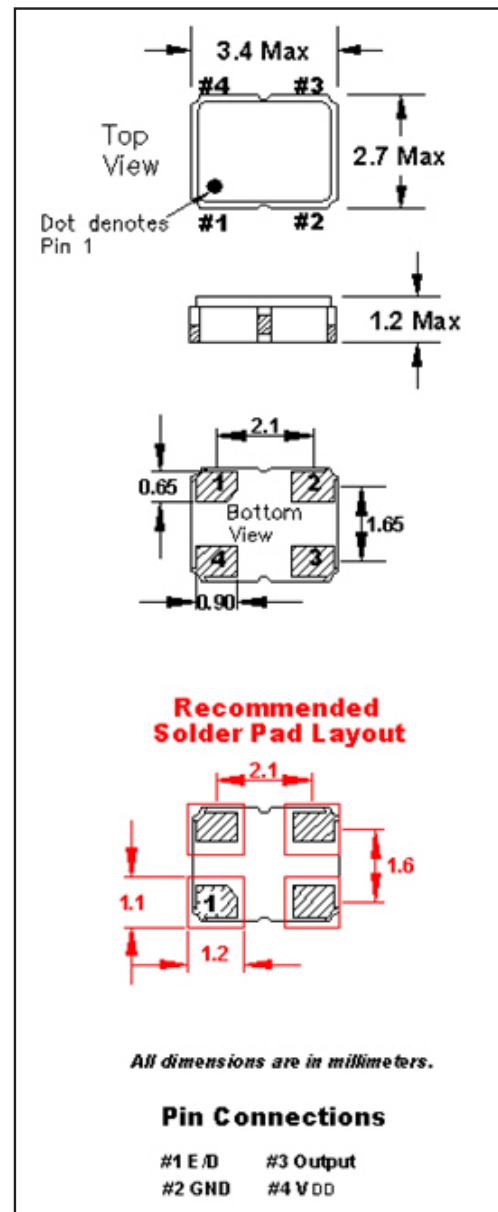
<sup>2</sup> An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

\*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.



All dimensions are in millimeters.

## • 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