HCMOS 3.3V 32.768kHz SMD Oscillator

MODEL: FK335 Series

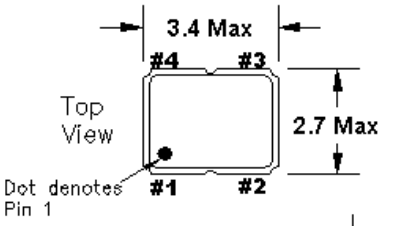
RoHS & REACH Compliant / Pb Free

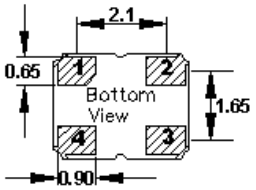
Rev. 11/19/2013

Need a Sample

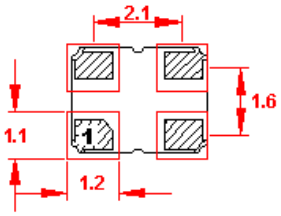
PART NUMBER SELECTION			
Part Number	**Model Number**	**Frequency Stability (PPM)**	**Operating Temperature (°C)**
861-Frequency-xx	FK335	±50	-20 ~ +70
861A-Frequency-xx	FK335R	±50	-40 ~ +85
861B-Frequency-xx	FK336	±25	-20 ~ +70
861C-Frequency-xx	FK336R	±25	-40 ~ +85
861D-Frequency-xx	FK338	±20	-10 ~ +60

SPECIFICATIONS	
Parameter	**Max (unless otherwise noted)**
Frequency	32.768kHz
Temperature Range Operating (T_{OPR}) Storage (T_{STG})	 See Part Number Selection -55°C ~ +125ºC
Supply Voltage (V_{DD})	3.3V ±10%
Input Current (I_{DD})	130 µA
Output Symmetry (50% V_{DD})	45% ~ 55%
Rise Time (10% ~ 90% V_{DD}) (T_R) Fall Time (90% ~ 10% V_{DD}) (T_F)	50 nS 50 nS
Output Voltage (V_{OL}) (V_{OH})	 10%V_{DD} 90%V_{DD} Min.
Output Load (HCMOS)	15 pF
Standby Current (I_{STD})	10 uA
Start-up Time (T_S)	2 mS
Output Disable Time[2]	1 uS
Output Enable Time[2]	2 mS
Aging (@25°C 1st Year)	±3 PPM
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish:	Au over Ni





Recommended Solder Pad Layout



All dimensions are in millimeters.

Pin Connections

#1 E/D	#3 Output
#2 GND	#4 V_{DD}

[1] Inclusive of 25°C tolerance after reflow, operating temperature range, supply voltage change and aging.
[2] An internal pull-up resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

ENABLE / DISABLE FUNCTION	
Pin1	**Out (pin 3)**
OPEN [2]	**Active**
'1' Level $V_{IH} \geq 70\%V_{DD}$	**Active**
'0' Level $V_{IL} \leq 30\%V_{DD}$	**High Z**

Notes:
*A 0.01µF capacitor should be placed between V_{DD} (Pin 4) and GND (Pin2) to minimize power supply line noise.
*Dimensional 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.

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