

# HCMOS 3.2x2.5mm 3.3V SMD Oscillator



Model: F330A Series

RoHS Compliant / Pb Free

Rev. 7/23/2007

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Need a  
Sample®

## FEATURES

- 3.3V Operation
- HCMOS Output
- Standby Function
- Tape and Reel (2,000 pcs. STD)

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

Part Number	Model Number	Frequency Stability <sup>1</sup>	Operating Temperature (°C)	Frequency Range (MHz)
584A-Frequency-xxxxx	F330A	±100PPM	-10 ~ +70	1.800 ~ 50.000
585A-Frequency-xxxxx	F330AR	±100PPM	-40 ~ +85	1.800 ~ 50.000
586A-Frequency-xxxxx	F335A	±50PPM	-10 ~ +70	1.800 ~ 50.000
587A-Frequency-xxxxx	F335AR	±50PPM	-40 ~ +85	1.800 ~ 50.000
588A-Frequency-xxxxx	F336A	±25PPM	-10 ~ +70	1.800 ~ 50.000
589A-Frequency-xxxxx	F336AR	±25PPM	-40 ~ +85	1.800 ~ 50.000
590A-Frequency-xxxxx	F338A	±20PPM	-10 ~ +70	1.800 ~ 50.000

## • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	1.800 ~ 50.000 MHz
Storage Temperature Range (TSTG)	-55°C ~ +125°C
Supply Voltage (VDD)	3.3V ± 5%
Input Current (IDD) (No Load)	
1.800 ~ 32.000 MHz	2.5mA
32.000+ ~ 50.000 MHz	3.5mA
Output Symmetry (50% VDD)	45% ~ 55%
Rise Time (10% ~ 90% VDD) (TR)	12nS
Fall Time (90% ~ 10% VDD) (TF)	12nS
Output Voltage (VOL)	10% VDD
(VOH)	90% VDD Min
Output Current (IOL)	2mA Min
(IOH)	-2mA Min
Output Load (HCMOS)	15pF
Standby Current	1µA
Start-up Time (Ts)	5mS
Output Disable Time <sup>2</sup>	150nS
Output Enable Time <sup>2</sup>	5mS
Reflow Soldering Temp	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

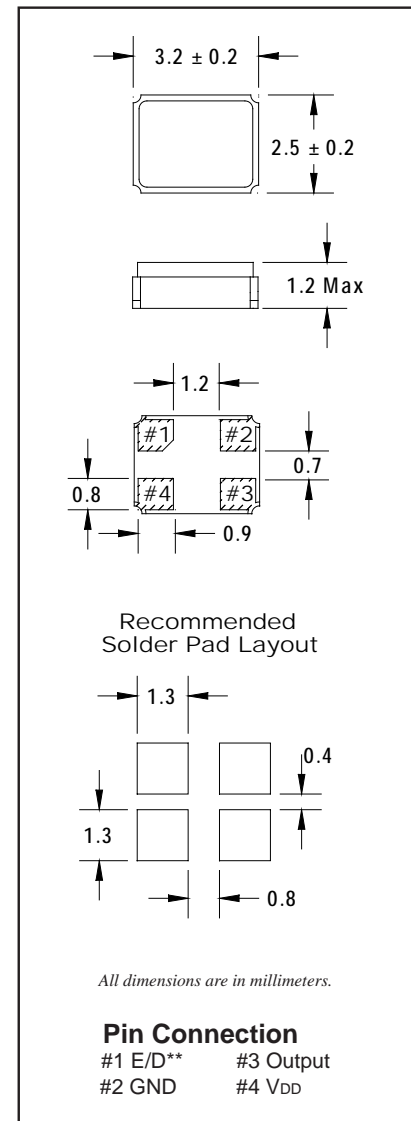
<sup>1</sup> Inclusive operating temperature range, input voltage change, load change, aging, shock, and vibration.

<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 bypass capacitor should be placed between VDD (Pin 4) and GND (Pin 2) to minimize power supply line noise. All specifications subject to change without notice.

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

INH (Pin 1)	OUTPUT (Pin 3)
OPEN <sup>2</sup>	ACTIVE
'1' Level VIH ≥ 70% VDD	ACTIVE
'0' Level VIL ≤ 30% VDD	High Z

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Low Current



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• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
F330A Series	∅1.5	4.0	4.0	3.5	8.0	1.3	2,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
F330A Series	2.0	∅13	∅21	∅60	∅180	9.0	1.2

