

# HCMOS 3.2x2.5mm 3.3V SMD Oscillator



Model: F330 Series

RoHS Compliant / Pb Free

Rev. 4/17/2007

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## 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)
584-Frequency-xxxxx	F330	±100PPM	-10 ~ +70	1.800 ~ 50.000
585-Frequency-xxxxx	F330R	±100PPM	-40 ~ +85	1.800 ~ 50.000
586-Frequency-xxxxx	F335	±50PPM	-10 ~ +70	1.800 ~ 50.000
587-Frequency-xxxxx	F335R	±50PPM	-40 ~ +85	1.800 ~ 50.000
588-Frequency-xxxxx	F336	±25PPM	-10 ~ +70	1.800 ~ 50.000
589-Frequency-xxxxx	F336R	±25PPM*	-40 ~ +85	1.800 ~ 50.000
590-Frequency-xxxxx	F338	±20PPM*	-10 ~ +70	1.800 ~ 50.000

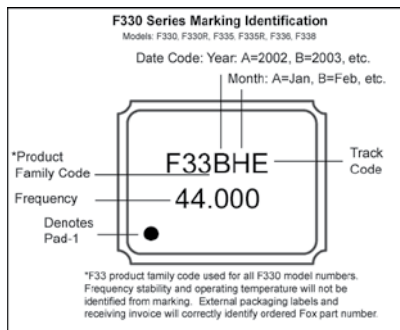
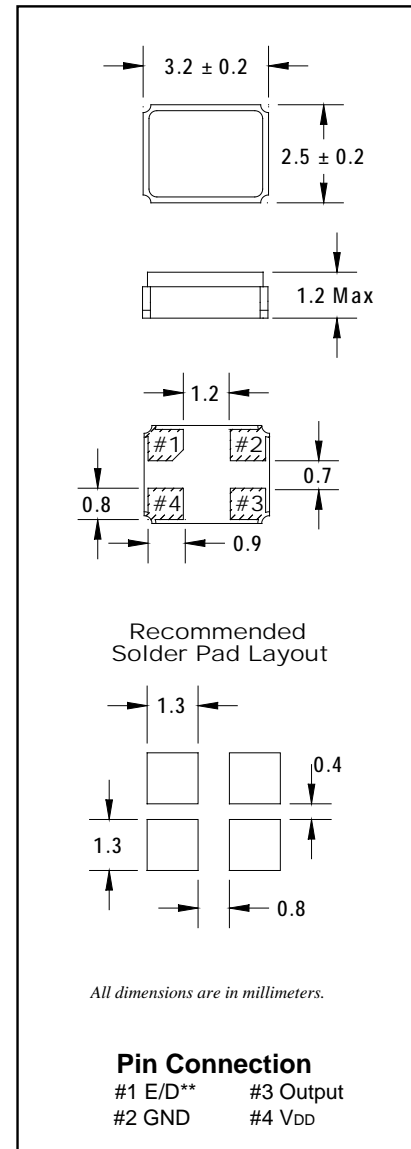
## • ELECTRICAL CHARACTERISTICS

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 ± 10%
Input Current (IDD)	
1.800 ~ 32.000 MHz	20mA
32.000+ ~ 50.000 MHz	25mA
Output Symmetry (50% VDD)	45% ~ 55%
Rise Time (10% ~ 90% VDD) (TR)	6nS
Fall Time (90% ~ 10% VDD) (TF)	6nS
Output Voltage (VOL)	10% VDD
(VOH)	90% VDD Min
Output Current (IOL)	2mA Min
(IOH)	-2mA Min
Output Load (HCMOS)	15pF
Standby Current	10µA
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 of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. \*Excludes Shock/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.



## • 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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• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
F330 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
F330 Series	2.0	∅13	∅21	∅60	∅180	9.0	1.2

