

HCMOS 3.2x2.5mm 3.3V SMD Oscillator



Model: F330 Series

RoHS Compliant / Pb Free

Rev. 10/21/2008

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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 ¹	Operating Temperature (°C)	Frequency Range (MHz)
584-Frequency-xxxxx	F330	±100PPM	-10 ~ +70	0.625 ~ 75.000
585-Frequency-xxxxx	F330R	±100PPM	-40 ~ +85	0.625 ~ 75.000
586-Frequency-xxxxx	F335	±50PPM	-10 ~ +70	0.625 ~ 75.000
587-Frequency-xxxxx	F335R	±50PPM	-40 ~ +85	0.625 ~ 75.000
588-Frequency-xxxxx	F336	±25PPM	-10 ~ +70	0.625 ~ 75.000
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)	0.625 ~ 75.000 MHz
Storage Temperature Range (T _{STG})	-55°C ~ +125°C
Supply Voltage (V _{DD})	3.3V ± 10%
Input Current (I _{DD})	
0.625 ~ 20.000 MHz	7mA
20.000+ ~ 40.000 MHz	13mA
40.000+ ~ 60.000 MHz	19mA
60.000+ ~ 75.000 MHz	24mA
Output Symmetry (50% V _{DD})	45% ~ 55%
Rise Time (10% ~ 90% V _{DD}) (T _R)	6nS
Fall Time (90% ~ 10% V _{DD}) (T _F)	6nS
Output Voltage (V _{OL})	10% V _{DD}
(V _{OH})	90% V _{DD} Min
Output Current (I _{OL})	2mA Min
(I _{OH})	-2mA Min
Output Load (HCMOS)	15pF
Standby Current	10µA
Start-up Time (T _s)	5mS
Output Disable Time ²	150nS
Output Enable Time ²	5mS
Reflow Soldering Temp	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

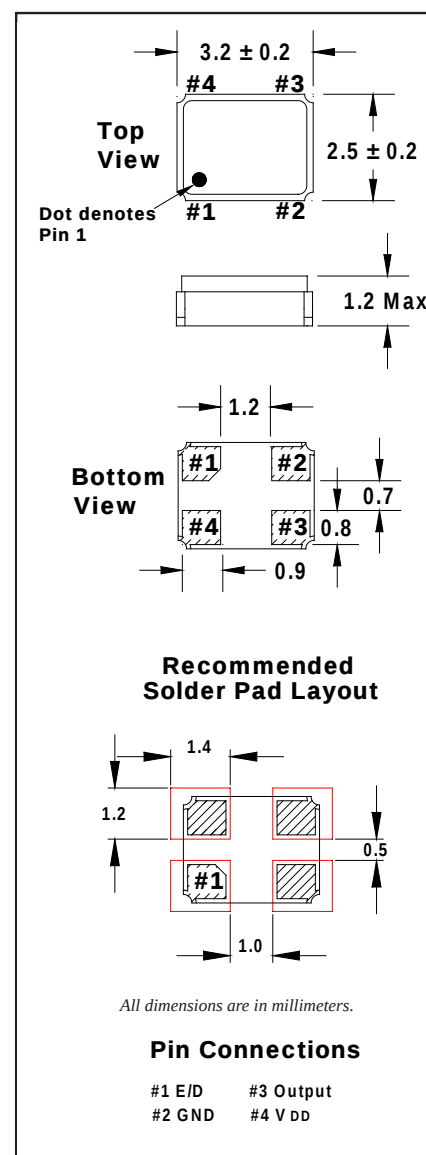
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. *Excludes Shock/Vibration

² 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 V_{DD} (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

INH (Pin 1)	OUTPUT (Pin 3)
OPEN ²	ACTIVE
'1' Level V _{IH} ≥ 70% V _{DD}	ACTIVE
'0' Level V _{IL} ≤ 30% V _{DD}	High Z

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• TAPE SPECIFICATIONS (millimeters)								• REEL SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY	MODEL	G	H	I	J	K	L	M
F330 Series	Ø1.5	4.0	4.0	3.5	8.0	1.4	2,000	F330 Series	2.0	Ø13	Ø21	Ø60	Ø180	9.0	1.2

