HCMOS 3.2x2.5mm 1.8V SMD Oscillator

Model: F310 Series | **RoHS Compliant / Pb Free** | **Rev. 5/2/2013**

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FEATURES

- 1.8V Operation
- HCMOS Output
- Low Power Consumption
- Standby Function
- Tape and Reel (2,000 pcs. STD)

PRELIMINARY

• PART NUMBER SELECTION

Learn More - Internet Required

Part Number	Model Number	Frequency Stability[1]	Operating Temperature (ºC)	Frequency Range (MHz)
665-Frequency-xxxxx	F310	±100 PPM	-10 ~ +70	1.8432 ~ 50.000
676-Frequency-xxxxx	F310R	±100 PPM	-40 ~ +85	1.8432 ~ 50.000
667-Frequency-xxxxx	F315	±50 PPM	-10 ~ +70	1.8432 ~ 50.000
758-Frequency-xxxxx	F315R	±50 PPM	-40 ~ +85	1.8432 ~ 50.000
668-Frequency-xxxxx	F316	±25 PPM	-10 ~ +70	1.8432 ~ 50.000
759-Frequency-xxxxx	F316R	±25 PPM*	-40 ~ +85	1.8432 ~ 50.000

• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	1.8432 ~ 50.000 MHz
Temperature Range (Tstg)	-55ºC ~ +125ºC
Supply Voltage (VDD)	1.8V ± 5%
Input Current (IDD)	
1.8432 ~ 32.100 MHz	7mA
32.100+ ~ 50.000 MHz	15mA
Output Symmetry (50% VDD)	40% ~ 60%
Rise Time (20% ~ 80% VDD) (TR)	
1.8432 ~ 32.100 MHz	5nS
32.100+ ~ 50.000 MHz	3.5nS
Fall Time (80% ~ 20% VDD) (TF)	
1.8432 ~ 32.100 MHz	5nS
32.100+ ~ 50.000 MHz	3.5nS
Output Voltage (VOL)	20% VDD
(VOH)	80% VDD Min
Output Current (IOL)	2mA Min
(IOH)	-2mA Min
Output Load (HCMOS)	15pF
Standby Current	10µA
Start-up Time (Ts)	10mS
Output Disable Time [2]	300nS
Output Enable Time [2]	10mS
Maximum Soldering Temp/Time	260ºC / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

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

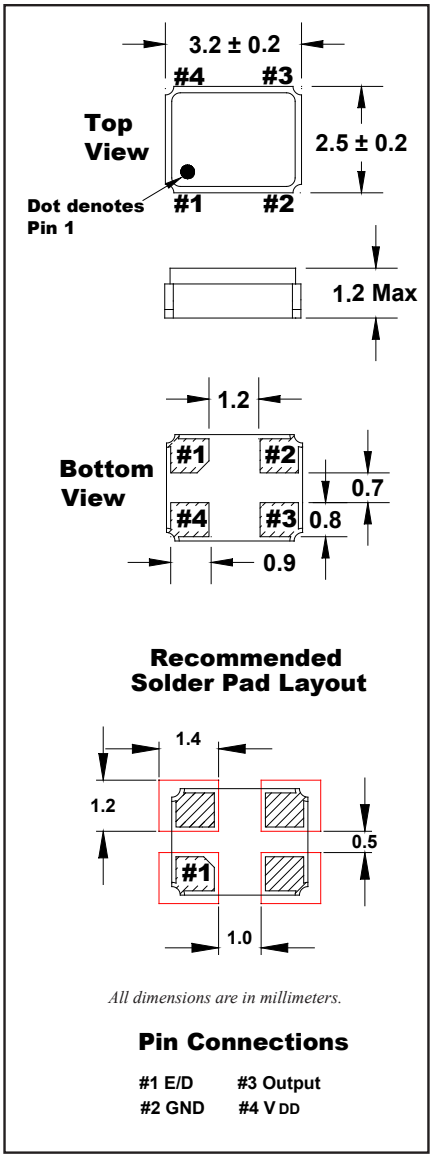
[2] An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

Note: A 0.01µF bypass capacitor should be placed between VDD (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 VIH ≥ 70% VDD	ACTIVE
'0' Level VIL ≤ 30% VDD	High Z

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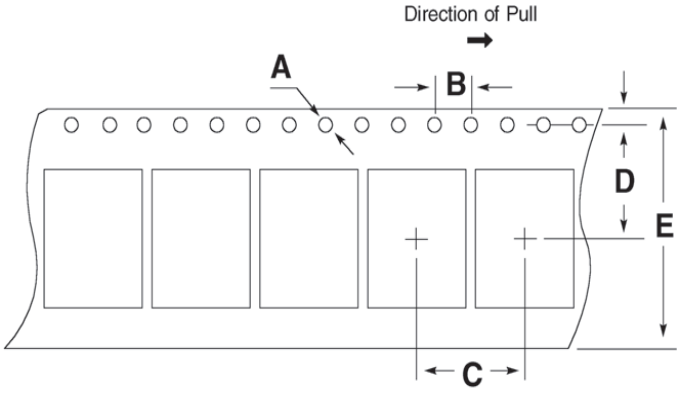
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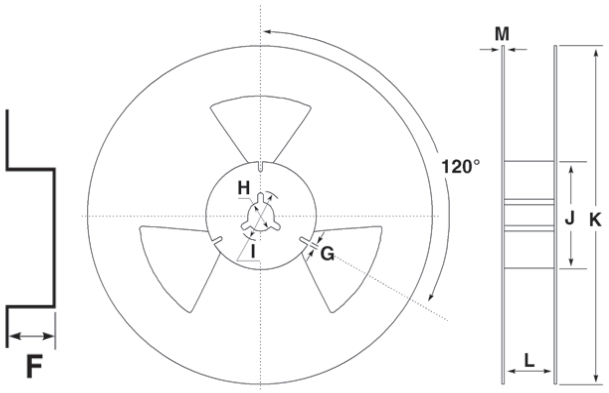
• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
F310 Series	∅1.5	4.0	4.0	3.5	8.0	1.4	2,000

• REEL SPECIFICATIONS (millimeters)

MODEL	G	H	I	J	K	L	M
F310 Series	2.0	∅13	∅21	∅60	∅180	9.0	1.2





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