

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 (°C)	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 (T _{STG})	-55°C ~ +125°C
Supply Voltage (V _{DD})	1.8V ± 5%
Input Current (I _{DD})	
1.8432 ~ 32.100 MHz	7mA
32.100+ ~ 50.000 MHz	15mA
Output Symmetry (50% V _{DD})	40% ~ 60%
Rise Time (20% ~ 80% V _{DD}) (T _r)	
1.8432 ~ 32.100 MHz	5nS
32.100+ ~ 50.000 MHz	3.5nS
Fall Time (80% ~ 20% V _{DD}) (T _f)	
1.8432 ~ 32.100 MHz	5nS
32.100+ ~ 50.000 MHz	3.5nS
Output Voltage (V _{OL})	20% V _{DD}
(V _{OH})	80% 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)	10mS
Output Disable Time ²	300nS
Output Enable Time ²	10mS
Maximum Soldering Temp/Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

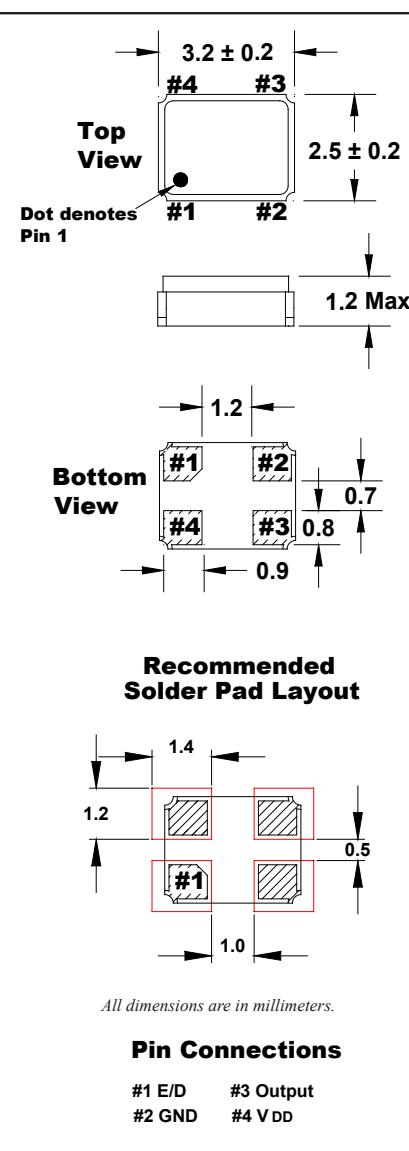
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration. *Excludes Shock/Vibration

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)

MODEL	A	B	C	D	E	F	STD Reel QTY
F310 Series	Ø1.5	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	Ø13	Ø21	Ø60	Ø180	9.0	1.2

