

HCMOS 1.6x1.2mm 1.8V SMD Oscillator



Model: F610 SERIES

RoHS/REACH Compliant / Pb Free

Rev. 3/16/2015

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FEATURES

- 1.8V Operation
- Standby Function
- Tape and Reel (3,000 pcs. STD)

OPTIONS

- 2.5V (F640) Version Available
- 3.3V (F630) Version Available

• PART NUMBER SELECTION				
Part Number	Model Number	Frequency Stability ¹	Operating Temperature (°C)	Frequency Range (MHz)
872-Frequency-xxxxx	F610	±100PPM	-20 ~ +70	1.000 ~ 80.000
872A-Frequency-xxxxx	F610R	±100PPM	-40 ~ +85	1.000 ~ 80.000
872B-Frequency-xxxxx	F615	±50PPM	-20 ~ +70	1.000 ~ 80.000
872C-Frequency-xxxxx	F615R	±50PPM	-40 ~ +85	1.000 ~ 80.000
872D-Frequency-xxxxx	F613	±30PPM	-20 ~ +70	1.000 ~ 80.000
872E-Frequency-xxxxx	F613R	±30PPM	-40 ~ +85	1.000 ~ 80.000
872F-Frequency-xxxxx	F616	±25PPM	-20 ~ +70	1.000 ~ 80.000
872H-Frequency-xxxxx	F618	±20PPM	-20 ~ +70	1.000 ~ 80.000

• ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	1.000 ~ 80.000 MHz
Storage Temperature Range (TSTG)	-40°C ~ +85°C
Supply Voltage (VDD)	1.8V ± 10%
Input Current (IDD)	
1.000000 ~ 10.000000 MHz	2mA
10.000001 ~ 30.000000 MHz	3mA
30.000001 ~ 40.000000 MHz	4mA
40.000001 ~ 60.000000 MHz	5mA
60.000001 ~ 70.000000 MHz	6mA
70.000001 ~ 80.000000 MHz	7mA
Output Symmetry (50% VDD)	45% ~ 55%
Rise Time (10% ~ 90% VDD)	4.5nS
Fall Time (90% ~ 10% VDD)	4.5nS
Output Voltage (VOL)	10% VDD
(VOH)	90% VDD Min
Output Current (IOL)	4mA Min
(IOH)	-4mA Min
Output Load (HCMOS)	15pF
Standby Current	10µA
Start-up Time (Ts)	2mS
Output Disable Time ²	200nS
Output Enable Time ²	2mS
Maximum Soldering Temp/Time	260°C ±5°C / 5 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au over Ni

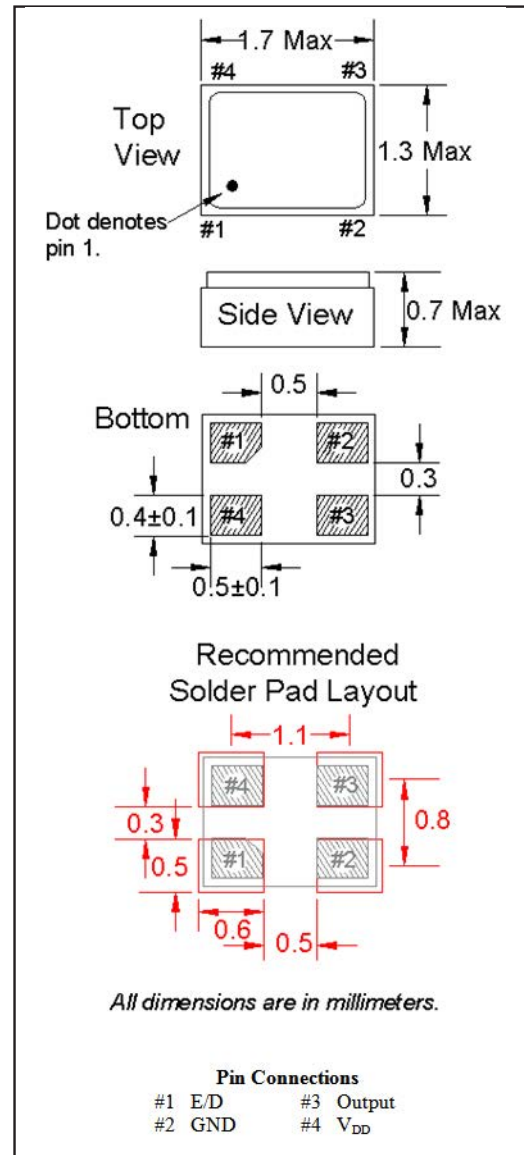
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

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	
(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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Need a Sample®

• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
F610 Series	∅1.5	4.0	4.0	3.5	8.0	0.8	3,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
F610 Series	2.0	∅13	∅21	∅60	∅180	9.0	1.2

