

HCMOS 5x3.2mm 3.3V SMD Oscillator



Model: F530LA SERIES

RoHS Compliant / Pb Free

Rev. 5/7/2009

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FEATURES

- 3.3V Operation
- Standby Function
- Tape and Reel (1,000 pcs. STD)

OPTIONS

- 5.0V (F550L) Version Available

PART NUMBER SELECTION Learn More - Internet Required				
Part Number	Model Number	Frequency Stability ¹	Operating Temperature (°C)	Frequency Range (MHz)
474A-Frequency-xxxxx	F530LA	±100PPM	-10 ~ +70	1.800 ~ 50.000
475A-Frequency-xxxxx	F530LAR	±100PPM	-40 ~ +85	1.800 ~ 50.000
476A-Frequency-xxxxx	F535LA	±50PPM	-10 ~ +70	1.800 ~ 50.000
550A-Frequency-xxxxx	F535LAR	±50PPM	-40 ~ +85	1.800 ~ 50.000
492A-Frequency-xxxxx	F536LA	±25PPM	-10 ~ +70	1.800 ~ 50.000
636A-Frequency-xxxxx	F536LAR	±25PPM	-40 ~ +85	1.800 ~ 50.000
546A-Frequency-xxxxx	F538LA	±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 ± 5%
Input Current (IDD) (No Load)	
1.800 ~ 32.000 MHz	2.5mA
32.000+ ~ 50.000 MHz	3.5mA
Output Symmetry (50% VDD)	45% ~ 55%
Rise Time (10% ~ 90% VDD) (TR)	12nS
Fall Time (90% ~ 10% VDD) (TF)	12nS
Output Voltage (VOL)	10% VDD
(VOH)	90% VDD Min
Output Current (IOL)	2mA Min
(IOH)	-2mA Min
Output Load (HCMOS)	15pF
Standby Current	1µA
Start-up Time (Ts)	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 operating temperature range, input voltage change, load change, aging, shock, and vibration.

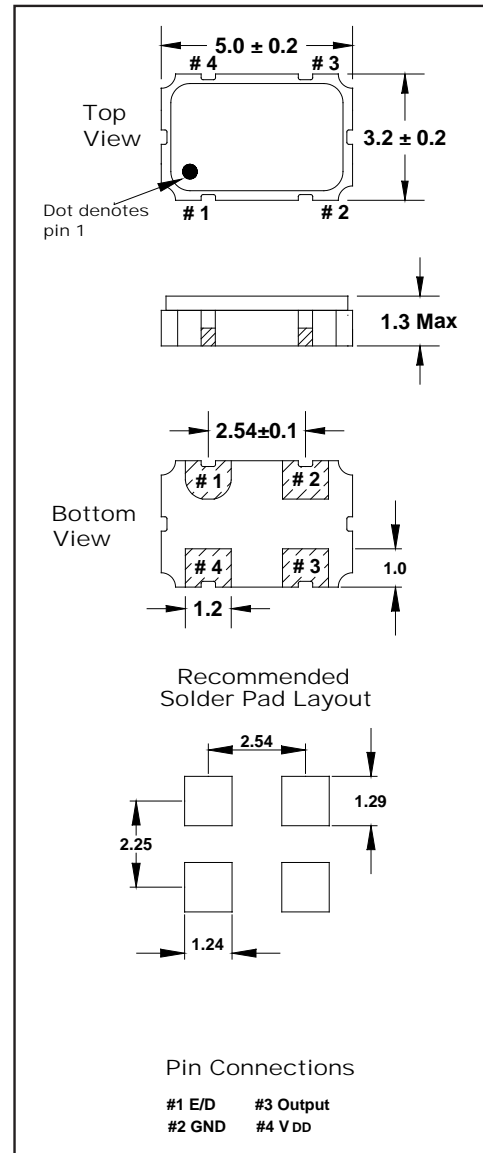
² An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

Note: A 0.01µF capacitor should be placed between VDD (Pin 4) and GND (Pin2) to minimize power supply 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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Low Current



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• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
F530LA Series	∅1.5	4.0	8.0	5.5	12.0	1.5	1,000

• REEL SPECIFICATIONS (millimeters)

MODEL	G	H	I	J	K	L	M
F530LA Series	2.0	∅13	∅21	∅62	∅180	13.5	2.0

