

HCMOS 5x3.2mm 2.85V SMD Oscillator



Model: F520L Series

RoHS Compliant / Pb Free

Rev. 7/23/2007

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FEATURES

- 2.85V Operation
- HCMOS Output
- Standby Function
- Tape and Reel (2,000 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)
661-Frequency-xxxxx	F520L	±100PPM	-10 ~ +70	1.544 ~ 80.000
662-Frequency-xxxxx	F520LR	±100PPM	-40 ~ +85	1.544 ~ 80.000
663-Frequency-xxxxx	F525L	±50PPM	-10 ~ +70	1.544 ~ 80.000
664-Frequency-xxxxx	F525LR	±50PPM	-40 ~ +85	1.544 ~ 80.000
499-Frequency-xxxxx	F526L	±25PPM	-10 ~ +70	1.544 ~ 80.000
659-Frequency-xxxxx	F526LR	±25PPM*	-40 ~ +85	1.544 ~ 80.000
520-Frequency-xxxxx	F528L	±20PPM*	-10 ~ +70	1.544 ~ 80.000

• ELECTRICAL CHARACTERISTICS

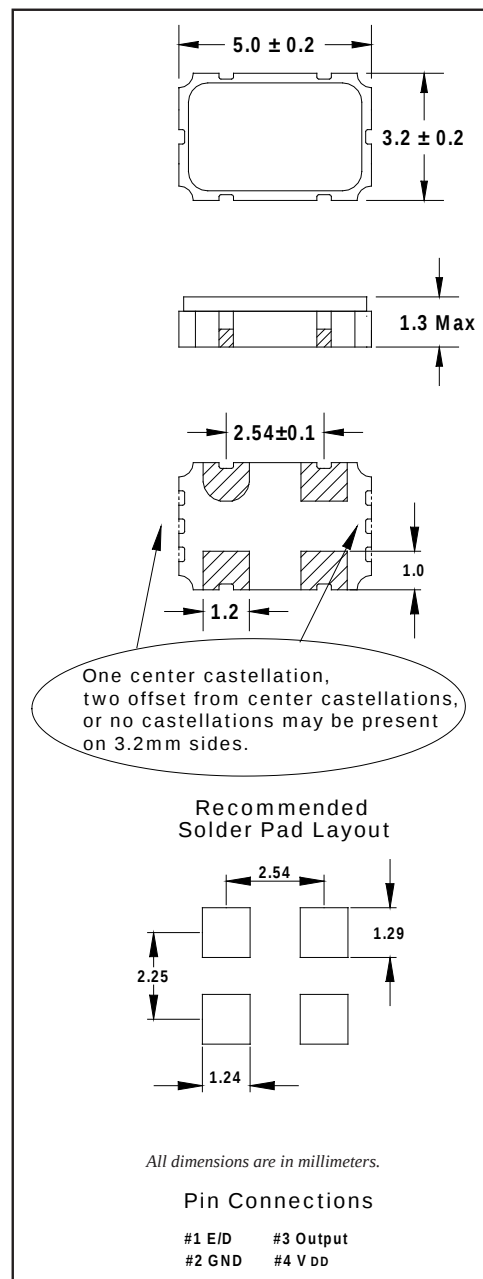
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	1.544 ~ 80.000 MHz
Storage Temperature Range (T _{STG})	-55°C ~ +125°C
Supply Voltage (V _{DD})	2.85V ± 5%
Input Current (I _{DD})	
1.544 ~ 32.000 MHz	12mA
32.000+ ~ 50.000 MHz	20mA
50.000+ ~ 80.000 MHz	40mA
Output Symmetry (50% V _{DD})	45% ~ 55%
Rise Time (10% ~ 90% V _{DD}) (T _r)	5nS
Fall Time (90% ~ 10% V _{DD}) (T _f)	5nS
Output Voltage (V _{OL})	10% V _{DD}
(V _{OH})	90% V _{DD} Min
Output Current (I _{OL})	4mA Min
(I _{OH})	-4mA Min
Output Load (HCMOS)	15pF
Standby Current	10µA
Start-up Time (T _s)	10mS
Output Disable Time ²	150nS
Output Enable Time ²	10mS

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.

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
F520L Series	Ø1.5	4.0	8.0	7.5	16.0	2.5	2,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
F520L Series	2.0	Ø13	Ø21	Ø80	Ø250	13.5	2.0

