5.0V, HCMOS SMD Oscillator with Standby

Model: F4101 SERIES **RoHS Compliant / Pb Free** **Rev. 1/23/2009**

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FEATURES

- 5.0V Operation
- HCMOS Output
- Standby Function
- Tape and Reel (2,000 pcs. STD)

• PART NUMBER SELECTION

Learn More - Internet Required

Part Number	Model Number	Frequency Stability[1]	Operating Temperature	Frequency Range (MHz)
118-Frequency-xxxxx	**F4101**	±100PPM	-10 ~ +70ºC	0.012 ~ 170.000
119-Frequency-xxxxx	**F4101R**	±100PPM	-40 ~ +85ºC	0.012 ~ 170.000
120-Frequency-xxxxx	**F4102**	±50PPM	-10 ~ +70ºC	0.012 ~ 170.000
121-Frequency-xxxxx	**F4102R**	±50PPM	-40 ~ +85ºC	0.012 ~ 170.000
122-Frequency-xxxxx	**F4103**	±25PPM	-10 ~ +70ºC	0.012 ~ 162.000
123-Frequency-xxxxx	**F4103R***	±25PPM	-40 ~ +85ºC	0.012 ~ 156.250
446-Frequency-xxxxx	**F4104***	±20PPM	-10 ~ +70ºC	0.012 ~ 162.000

• ELECTRICAL CHARACTERISTICS

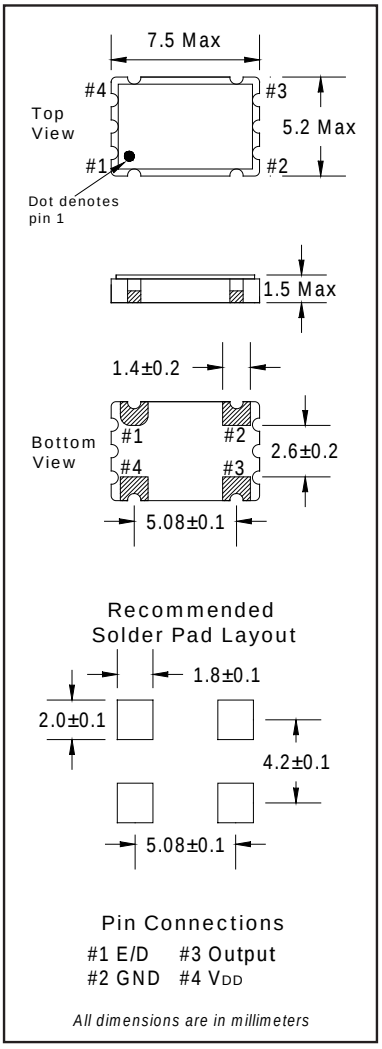
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	0.012 ~ 170.000 MHz
Storage Temperature Range (Tstg)	-55ºC ~ +125ºC
Supply Voltage (Vdd)	5.0V ± 10%
Input Current (Idd)	
0.012 ~ 32.000 MHz	18mA
32.000+ ~ 67.000 MHz	50mA
67.000+ ~ 125.000 MHz	80mA
125.000+ ~ 170.000 MHz	90mA
Output Symmetry (50% Vdd)	40% ~ 60%
Rise Time (10% ~ 90% Vdd) (Tr)	
0.012 ~ 79.999999 MHz	5nS
80.000 ~ 170.000 MHz	4nS
Fall Time (90% ~ 10% Vdd) (Tf)	
0.012 ~ 79.999999 MHz	5nS
80.000 ~ 170.000 MHz	4nS
Output Voltage (Vol)	10% Vdd
(Voh)	90% 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]	150nS
Output Enable Time [2]	10mS

[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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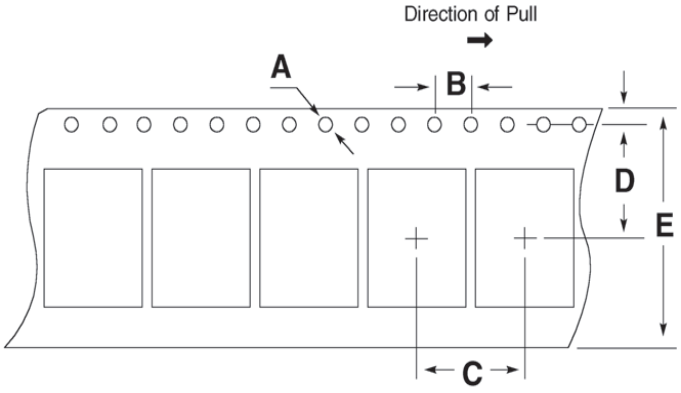
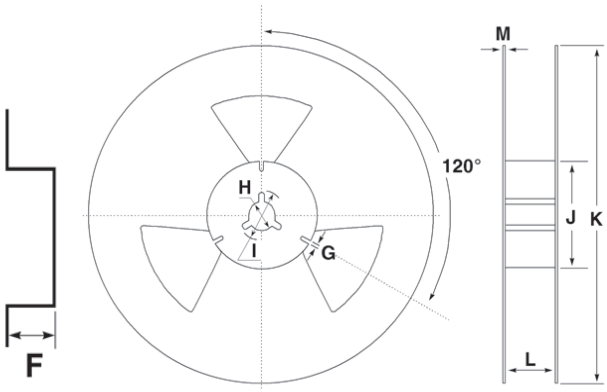
• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
F4101 Series	∅1.5	4.0	8.0	7.5	16.0	2.15	2,000

• REEL SPECIFICATIONS (millimeters)

MODEL	G	H	I	J	K	L	M
F4101Series	2.0	∅13	∅21	∅80	∅255	17.5	2.0





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