

3.3V, HCMOS, Tight Stability, SMD Oscillator



Model: F4100 SERIES

RoHS Compliant / Pb Free

Rev. 8/25/2011

Page 1 of 2

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FEATURES

- Tight Stability
- 3.3V 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 (°C)	Frequency Range (MHz)
549-Frequency-xxxxx	F4108R	±20PPM	-40 ~ +85	1.800 ~ 50.000
544-Frequency-xxxxx	F4107	±15PPM	-10 ~ +70	1.800 ~ 50.000
565-Frequency-xxxxx	F4107R	±15PPM	-40 ~ +85	1.800 ~ 50.000
545-Frequency-xxxxx	F4109	±10PPM	-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)	22 mA
Output Symmetry (50% VDD)	45% ~ 55%
Rise Time (10% ~ 90% VDD) (Tr)	5nS
Fall Time (90% ~ 10% VDD) (Tf)	5nS
Output Voltage (VOL)	10% VDD
(VOH)	90% VDD Min
Output Current (IOL)	8mA Min
(IOH)	4mA Min
Output Load (HCMOS)	15pF
Standby Current	50µA
Start-up Time (Ts)	5mS
Output Disable Time ²	150nS
Output Enable Time ²	5mS

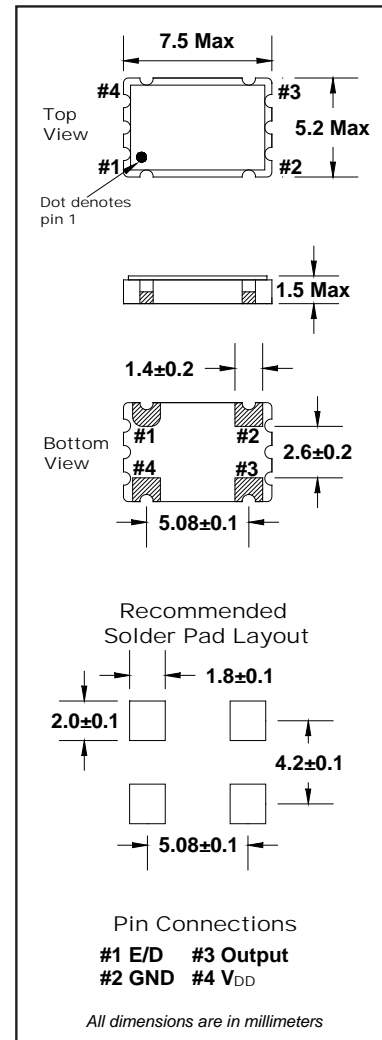
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

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

INH (Pin 1)	OUTPUT (Pin 3)
OPEN ²	ACTIVE
'1' Level $V_{IH} \geq 70\% V_{DD}$	ACTIVE
'0' Level $V_{IL} \leq 30\% V_{DD}$	High Z

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Page 2 of 2

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Need a
Sample®

• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
F4100 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
F4100 Series	2.0	∅13	∅21	∅80	∅255	17.5	2.0

