

3.3V, HCMOS, Tight Stability, SMD Oscillator



Model: F4100 SERIES

RoHS Compliant / Pb Free

Rev. 8/25/2011

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Sample®

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 (T _{STG})	-55°C ~ +125°C
Supply Voltage (V _{DD})	3.3V ± 5%
Input Current (I _{DD})	22 mA
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})	8mA Min
(I _{OH})	4mA Min
Output Load (HCMOS)	15pF
Standby Current	50μA
Start-up Time (T _s)	5mS
Output Disable Time ²	150nS
Output Enable Time ²	5mS

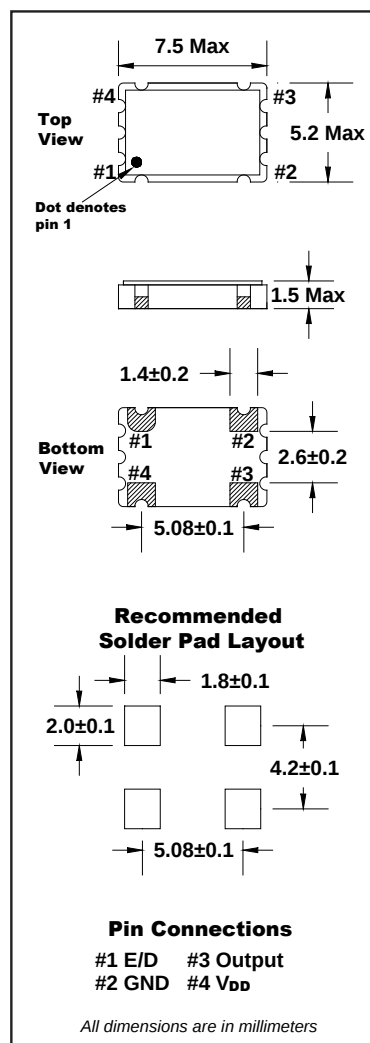
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

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 V_{DD} (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} ≥ 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
F4100 Series	Ø1.5	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	Ø13	Ø21	Ø80	Ø255	17.5	2.0

