3.3V, HCMOS, SMD Oscillator

Model: F4100 SERIES **RoHS Compliant / Pb Free** **Rev. 1/16/2014**

http://www.foxonline.com/need_a_sample.htm

Need a Sample®

• PART NUMBER SELECTION

Part Number	Model Number	Frequency Stability[1]	Operating Temperature (°C)	Frequency Range (MHz)
116-Frequency-xxxxx	F4100	±100PPM	-10 ~ +70	0.012 ~ 170.000
117-Frequency-xxxxx	F4100R	±100PPM	-40 ~ +85	0.012 ~ 170.000
124-Frequency-xxxxx	F4105	±50PPM	-10 ~ +70	0.012 ~ 170.000
125-Frequency-xxxxx	F4105R	±50PPM	-40 ~ +85	0.012 ~ 170.000
126-Frequency-xxxxx	F4106	±25PPM	-10 ~ +70	0.012 ~ 165.000
127-Frequency-xxxxx	F4106R	±25PPM*	-40 ~ +85	0.012 ~ 156.520
128-Frequency-xxxxx	F4108	±20PPM*	-10 ~ +70	0.012 ~ 162.000

XpressO® Equivalent

FXO-HC73

Why XpressO?

Lower Cost, Faster Delivery, Low Jitter!

• ELECTRICAL CHARACTERISTICS

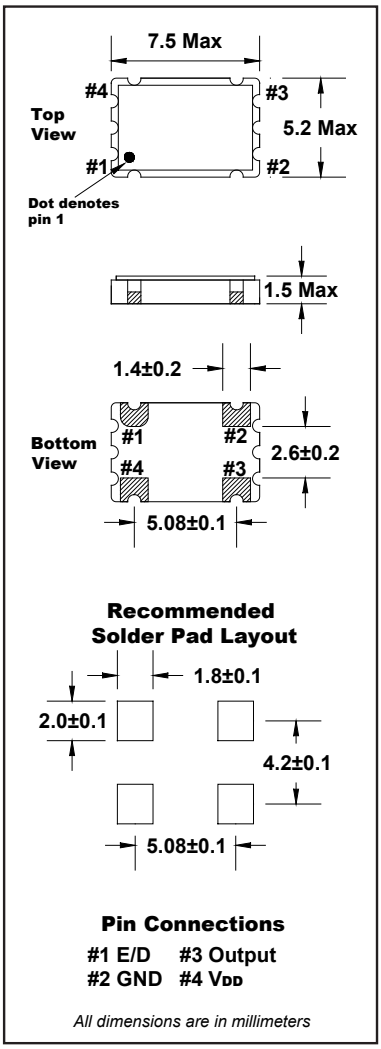
PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	0.012 ~ 170.000 MHz
Storage Temperature Range (Tstg)	-55°C ~ +125°C
Supply Voltage (Vdd)	3.3V ± 10%
Input Current (Idd)	
0.012 ~ 0.040 MHz	3mA
0.040+ ~ 1.500 MHz	6mA
1.500+ ~ 32.000 MHz	15mA
32.000+ ~ 50.000 MHz	20mA
50.000+ ~ 67.000 MHz	25mA
67.000+ ~ 170.000 MHz	40mA
Output Symmetry (50% Vdd)	
0.012 ~ 50.000 MHz	45% ~ 55%
50.000+ ~ 170.000 MHz	40% ~ 60%
Rise Time (10% ~ 90% Vdd) (Tr)	
0.012 ~ 80.000 MHz	6nS
80.000+ ~ 125.000 MHz	4nS
125.000+ ~ 170.000 MHz	3nS
Fall Time (90% ~ 10% Vdd) (Tf)	
0.012 ~ 80.000 MHz	6nS
80.000+ ~ 125.000 MHz	4nS
125.000+ ~ 170.000 MHz	3nS
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)	
0.012 ~ 32.000 MHz	5mS
32.000+ ~ 170.000 MHz	10mS
Output Disable Time [2]	150nS
Output Enable Time [2]	
0.012 ~ 32.000 MHz	5mS
32.000+ ~ 170.000 MHz	10mS
Jitter (FO ≥ 100MHz)	
12kHz ~ 20MHz	0.3pS Typ.
RMS Period	2.5pS Typ.
Cycle-to-Cycle	20pS Typ.

[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 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 [2]

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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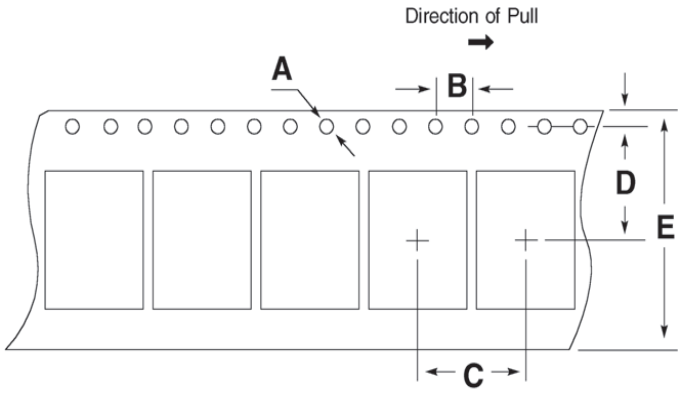
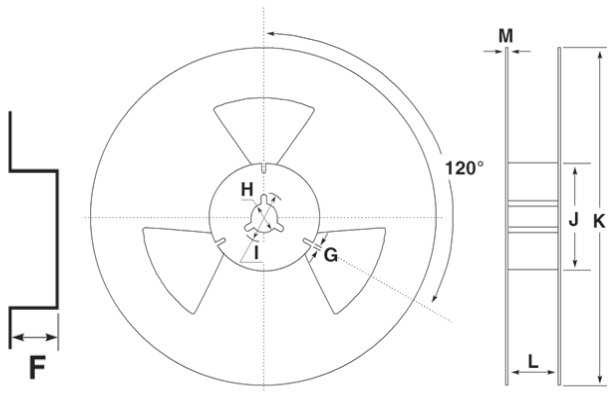
• TAPE SPECIFICATIONS (millimeters)

MODEL	A	B	C	D	E	F	STD Reel QTY
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





Mouser Electronics

Authorized Distributor

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Fox:

F4100R-10.000 F4100-7864320MHZ F4100-83.333MHZ F4106-5.2488MHZ F4108-2000 F4100-75.00 F4100-200 F4100-33.000MHZ F4105-1250 F4105-7.2800 F4100-018 F4105-80.000 MHz F4105-77.76 MHz F4105-75.000 MHz F4100-500 F4100-666 F4100-333 F4105-72.800 F4100-400 F4106R-44.00MHZ F4105-830 F4101-3.6764 MHZ F4105-660 F4105-666 F4100R-12.500000 F4100-1062 F4105-270 F4100-27.000000MHZ F4100-31.475330 MHZ F4100- 80MHZ F4106-33.000MHZ F4100-320 F4101-48.0MHZ F4101-20.00 MHZ F4100-480 F4105R-250 F4100R-25.0000 F4105-250 F4105-90.000 MHz F4100-28.63636MHZ F4100-250 F4100-100 F4100-143 F4100-160 F4105-143 F4105-200 F4105-500 F4105-1062 F4105-1000 F4100R 50.000 MHZ F4100-4.096MHZ F4100-24.576MHZ F4100-29.4912MHz F4105-156.25MHz F4106-80.00000MHZ F4106R-83.333