

# HCMOS 2.5x2mm 2.5V Oscillator



Model: F240 SERIES

RoHS Compliant / Pb Free

Rev. 5/20/2008

Page 1 of 2

[http://www.foxonline.com/need\\_a\\_sample.htm](http://www.foxonline.com/need_a_sample.htm)

Need a  
Sample®

## FEATURES

- 2.5V Operation
- Standby Function
- Tape and Reel (3,000 pcs. STD)

## • PART NUMBER SELECTION [Learn More](#) - Internet Required

Part Number	Model Number	Frequency Stability <sup>1</sup>	Operating Temperature (°C)	Frequency Range (MHz)
778-Frequency-xxxxx	F240	±100PPM	-20 ~ +70	0.750 ~ 50.000
778R-Frequency-xxxxx	F240R	±100PPM	-40 ~ +85	0.750 ~ 50.000
779-Frequency-xxxxx	F245	±50PPM	-20 ~ +70	0.750 ~ 50.000
779R-Frequency-xxxxx	F245R	±50PPM	-40 ~ +85	0.750 ~ 50.000
780-Frequency-xxxxx	F246	±25PPM	-20 ~ +70	0.750 ~ 50.000

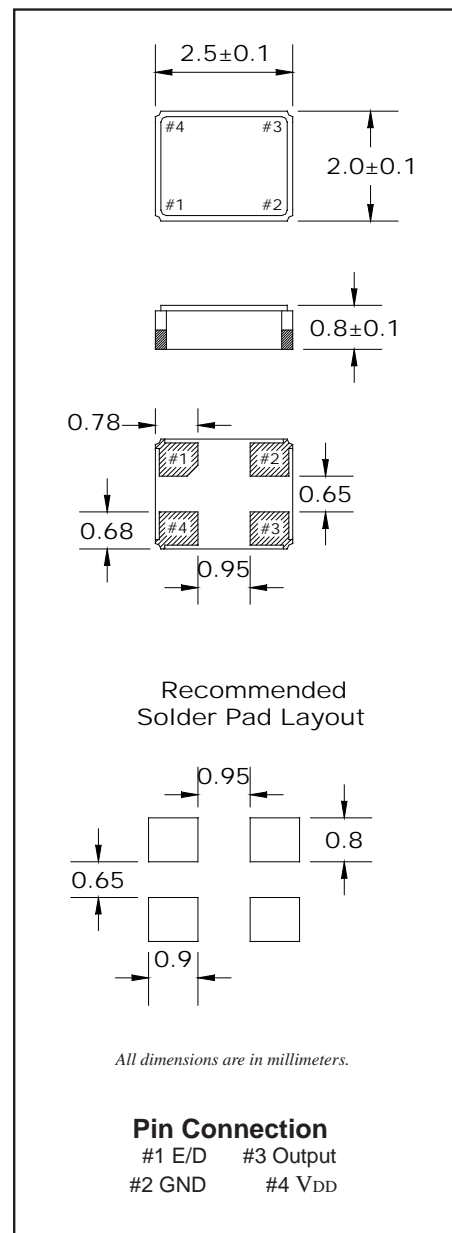
## • ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	0.750 ~ 50.000 MHz
Storage Temperature Range (T <sub>STG</sub> )	-55°C ~ +100°C
Supply Voltage (V <sub>DD</sub> )	2.5V ± 5%
Input Current (I <sub>DD</sub> )	
0.750 ~ 19.999 MHz	5mA
19.999+ ~ 39.999 MHz	9mA
39.999+ ~ 50.000 MHz	11mA
Output Symmetry (50% V <sub>DD</sub> )	40% ~ 60%
Rise Time (10% ~ 90% V <sub>DD</sub> ) (T <sub>R</sub> )	10nS
Fall Time (90% ~ 10% V <sub>DD</sub> ) (T <sub>F</sub> )	10nS
Output Voltage (V <sub>OL</sub> )	10% V <sub>DD</sub>
(V <sub>OH</sub> )	90% V <sub>DD</sub> Min
Output Current (I <sub>OL</sub> )	4mA Min
(I <sub>OH</sub> )	-4mA Min
Output Load (HCMOS)	15pF
Standby Current	5µA
Start-up Time (T <sub>s</sub> )	10mS
Output Disable Time <sup>2</sup>	200nS
Output Enable Time <sup>2</sup>	10mS
Aging (T <sub>a</sub> =25°C: per year)	± 5 PPM
Reflow Soldering Temp	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

<sup>1</sup> Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, shock, and vibration.

<sup>2</sup> An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open.

Note: A 0.01µF capacitor should be placed between V<sub>DD</sub> (Pin 4) and GND (Pin2) to minimize power supply noise. All specifications subject to change without notice.



## • ENABLE / DISABLE FUNCTION

INH (Pin 1)	OUTPUT (Pin 3)
OPEN	ACTIVE
'1' Level V <sub>IH</sub> ≥ 80% V <sub>DD</sub>	ACTIVE
'0' Level V <sub>IL</sub> ≤ 20% V <sub>DD</sub>	High Z

# HCMOS 2.5x2mm 2.5V Oscillator



Model: F240 SERIES

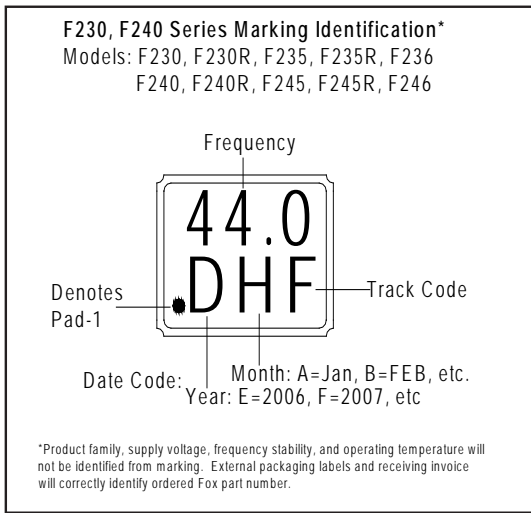
RoHS Compliant / Pb Free

Rev. 5/20/2008

Page 2 of 2

[http://www.foxonline.com/need\\_a\\_sample.htm](http://www.foxonline.com/need_a_sample.htm)

Need a  
Sample®



• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
F240 Series	∅1.5	4.0	8.0	7.5	16.0	2.5	3,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
F240 Series	2.0	∅13	∅21	∅80	∅250	13.5	2.0

