

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







HCMOS 2.5x2mm 3.3V Oscillator



Model: F230 SERIES

RoHS Compliant / Pb Free

Rev. 12/2/2010

1 of 2 http://www.foxonline.com/need_a_sample.htm

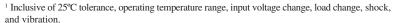


FEATURES

- 3.3V Operation
- Standby Function
- Tape and Reel (3,000 pcs. STD)

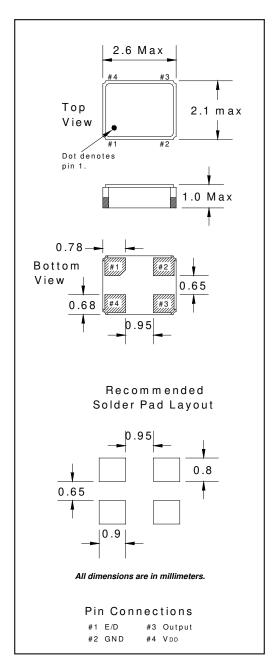
PART NUMBER SELECTION Learn More - Internet Required							
Part Number	Model	Frequency	Operating	Frequency			
	Number	Stability ¹	Temperature (°C)	Range (MHz)			
781-Frequency-xxxxx	F230	±100PPM	-20 ~ +70	0.750 ~ 50.000			
781R-Frequency-xxxxx	F230R	±100PPM	-40 ~ +85	0.750 ~ 50.000			
782-Frequency-xxxxx	F235	±50PPM	-20 ~ +70	0.750 ~ 50.000			
782R-Frequency-xxxxx	F235R	±50PPM	-40 ~ +85	0.750 ~ 50.000			
783-Frequency-xxxxx	F236	±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 (Tstg)	-55°C ~ +100°C					
Supply Voltage (VDD)	$3.3V \pm 5\%$					
Input Current (IDD)						
0.750 ~ 19.999 MHz	7mA					
19.999+ ~ 39.999 MHz	13mA					
39.999+ ~ 50.000 MHz	19mA					
Output Symmetry (50% VDD)	45% ~ 55%					
Rise Time (10% ~ 90% VDD) (TR)	10nS					
Fall Time (90% ~ 10% VDD) (TF)	10nS					
Output Voltage (Vol.)	10% Vdd					
(Voh)	90% Vdd Min					
Output Current (IoL)	5mA Min					
(Іон)	-5mA Min					
Output Load (HCMOS)	15pF					
Standby Current	5μΑ					
Start-up Time (Ts)	10mS					
Output Disable Time ²	150nS					
Output Enable Time ²	10mS					
Aging (Ta=25°C: per year)	± 5 PPM					
Reflow Soldering Temp	260°C / 10 Seconds					
Moisture Sensitivity Level (MSL)	1					
Termination Finish	Au					



 $^{^2}$ An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open. Note: A $0.01 \mu F$ capacitor should be placed between Vdd (Pin 4) and GND (Pin2) to minimize power supply noise. All specifications subject to change without notice. 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	ACTIVE			
'1' Level Vih ≥ 80% Vdd	ACTIVE			
'0' Level VIL ≤ 20% VDD	High Z			

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TAPE SPECIFICATIONS (millimeters)							
MODEL	Α	В	С	D	Е	F	STD Reel QTY
F230 Series	Ø1.5	4.0	4.0	3.5	8.0	1.15	3,000

• REEL SPECIFICATIONS (millimeters)								
MODEL G		H I		J K		L	M	
F230 Series	2.0	Ø13	Ø21	Ø60	Ø180	9.0	2.0	

