

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!



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HCMOS 2.5x2mm 1.8V Oscillator



Model: F210 SERIES

RoHS & REACH Compliant

Rev. 9/17/201

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



FEATURES

- · Standby Function
- Tape and Reel (3,000 pcs. STD)

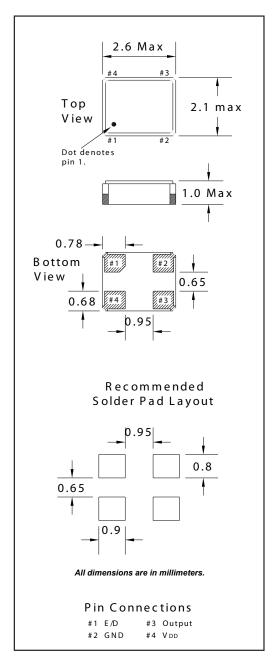
PART NUMBER SELECTION							
Part Number	Model	Frequency	Operating	Frequency			
1 ai t i vambei	Number	Stability ¹	Temperature (°C)	Range (MHz)			
819-Frequency-xxxxx	F210	±100PPM	-10 ~ +70	$0.750 \sim 50.000$			
819A-Frequency-xxxxx	F210R	±100PPM	-40 ~ +85	$0.750 \sim 50.000$			
819B-Frequency-xxxxx	F215	±50PPM	-10 ~ +70	$0.750 \sim 50.000$			
819C-Frequency-xxxxx	F215R	±50PPM	-40 ~ +85	$0.750 \sim 50.000$			
819D-Frequency-xxxxx	F216	±25PPM	-10 ~ +70	$0.750 \sim 50.000$			
819E-Frequency-xxxxx	F216R	±25PPM*	-40 ~ +85	$1.800 \sim 50.000$			

• 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)	$1.8V \pm 5\%$				
Input Current (IDD)					
0.750 ~ 10.000 MHz	2.5mA				
10.000+ ~ 20.000 MHz	3.5mA				
20.000+ ~ 30.000 MHz	4.0mA				
30.000+ ~ 40.000 MHz	4.5mA				
40.000+ ~ 50.000 MHz	5.0mA				
Output Symmetry (50% VDD)	45% ~ 55%				
Rise Time (10% ~ 90% VDD)	10nS				
Fall Time (90% ~ 10% VDD)	10nS				
Output Voltage (Vol.)	10% Vdd				
(Voh)	90% VDD Min				
Output Current (IoL)	2mA Min				
(Іон)	-2mA Min				
Output Load (HCMOS)	15pF				
Standby Current	10μΑ				
Start-up Time (Ts)	10mS				
Output Disable Time ²	10uS				
Output Enable Time ²	10mS				
Reflow Soldering Temp	260°C / 10 Seconds				
Moisture Sensitivity Level (MSL)	1				
Termination Finish	Au				

¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, reflow, and one year aging *Excludes Shock/Vibration.

Note: A $0.01\mu F$ capacitor should be placed between VDD (Pin 4) and GND (Pin2) to minimize power supply 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				
Pin 1	OUTPUT (Pin 3)			
OPEN ²	ACTIVE			
'1' Level Vih ≥ 70% Vdd	ACTIVE			
'0' Level VIL ≤ 30% VDD	High Z			

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

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TAPE SPECIFICATIONS (millimeters)							
MODEL							STD Reel QTY
F210 Series	Ø1.5	4.0	4.0	3.5	8.0	1.15	3,000

• REEL SPECIFICATIONS (millimeters)								
MODEL	G	Н	H I		K	L	M	
F210 Series	2.0	Ø13	Ø 21	Ø60	Ø180	9.0	2.0	

