imall

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

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HCMOS 2.0x1.6mm 3.3V SMD Oscillator

Model: F130 SERIES

RoHS Compliant / Pb Free





FEATURES

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

PART NUMBER SELECTION Learn More - Internet Required									
Part Number	Model Number	Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)					
837-Frequency-xxxxx	F130	±100PPM ¹	-20 ~ +70	1.000 ~ 80.000					
837A-Frequency-xxxxx	F130R	±100PPM ¹	-40 ~ +85	1.000 ~ 80.000					
837B-Frequency-xxxxx	F135	±50PPM ¹	-20 ~ +70	1.000 ~ 80.000					
837C-Frequency-xxxxx	F135R	±50PPM ¹	-40 ~ +85	1.000 ~ 80.000					
837D-Frequency-xxxxx	F136	±25PPM ²	-10 ~ +60	1.000 ~ 80.000					

• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)					
Frequency Range (Fo)	1.000~ 80.000 MHz					
Storage Temperature Range (Tstg)	-40°C ~ +85°C					
Supply Voltage (VDD)	$3.3V \pm 10\%$					
Input Current (IDD)						
1.000000 ~ 40.000000 MHz	5mA					
40.000001 ~ 60.000000 MHz	10mA					
60.000001 ~ 80.000000 MHz	15mA					
Output Symmetry (50% VDD)	45% ~ 55%					
Rise Time (10% ~ 90% VDD)	6nS					
Fall Time (90% ~ 10% VDD)	6nS					
Output Voltage (VOL)	10% VDD					
(Vон)	90% VDD Min					
Output Current (IOL)	4mA Min					
(Іон)	-4mA Min					
Output Load (HCMOS)	15pF					
Standby Current	10µA					
Start-up Time (Ts)	2mS					
Output Disable Time ³	50uS					
Output Enable Time ³	2mS					
Phase Noise (36 MHz @ 1 kHz offset)	-120dBc/Hz Typ.					
Maximum Soldering Temp / Time	260°C ±5°C / 5 Seconds					
Moisture Sensitivity Level (MSL)	1					
Termination Finish	Au over Ni					
	Au over Ni					

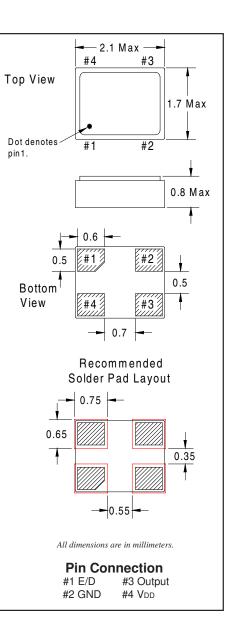
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, reflow freq. shift and one year aging.

² Inclusive of 25°C tolerance and operating temperature range.

 3 An internal pullup resistor from pin 1 to pin 4 allows active output if pin 1 is left open. Notes: A 0.01 μ F capacitor should be placed between VDD (Pin 4) and GND (Pin2) to minimize power supply noise.

Dimensional 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 ³	ACTIVE								
'1' Level VIH ≥ 70% VDD	ACTIVE								
'0' Level VIL $\leq 30\%$ VDD	High Z								

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TAPE SPECIFICATIONS (millimeters)					REEL SPECIFICATIONS (millimeters)										
MODEL	Α	В	С	D	Е	F	STD Reel QTY	MODEL	G	н	I	J	K	L	М
F130 Series	Ø1.5	4.0	4.0	3.5	8.0	1.15	3,000	F130 Series	2.0	Ø13	Ø 21	Ø60	Ø180	9.0	1.7

