Datasheet

SX7C HCMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- SMD package
- High output drive capability applications
- Many options available
- Applications : Wireless communications, PC main boards, ...

7.0 x 5.0 x 1.4 mm

Item	Specification					
Frequency Range	0.5 MHz ~165.0 MHz					
Output Logic	CMOS					
Overall Frequency Stability*	± 20 ppm ~ ± 100 ppm (see options)					
Operating Temperature Range	0 ~+70°C commercial applications (see options) -40 ~+85°C industrial application (see options)					
Supply Voltage Vdd	+1.8V ±5%	+2.5V ±5%	+2.8V ±5%	+3.0V ±5%	+3.3V ±5%	+5.0V ±5%
Supply Current Idd	5 mA ~ 20 mA	5 mA ~ 25 mA	5 mA ~ 25 mA	5 mA ~ 30 mA	5 mA ~ 35 mA	5 mA ~ 40 mA
Output Level	VOH ≥ 0.9 Vdd		VOL ≤ 0.1 Vdd			
Output Load	15 pF				15 pF - 30 pF (see options)	
Symmetry	45/55%					
Rise Time / Fall Time Fr/Ff	2 ~ 8 ns					
Tri-state function	pin #1 = high or open pin #1 = low			pin #3 ==> oscillation pin #3 ==> high impedance		
Start-up Time	10 ms max.					
RMS jitter (12kHz to 20 MHz band)	1 ps max.					
Packing Unit	1000pcs/reel					
Soldering Condition	260°C, 10 sec x 2 max					
	Customer specifications on request					

(*) Includes initial tolerance @+25°C, stability over operating temperature, stability vs. load change, stability vs. supply change and one year aging

OPTIONS & ORDERING INFORMATION

SX7C .... - ..... MHz

Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Output Load *	Frequency in MHz
18 = +1.8V	**D =** -10°/+60°C	**20 =** ±20 ppm	**E =** Tri-state	**Blanc =** 15 pF	Please specify the
25 = +2.5V	**E =** 0°/+70°C	**25 =** ±25 ppm		**H =** 30 pF	frequency in MHz
28 = +2.8V	**F =** -20°/+70°C	**30 =** ±30 ppm			
30 = +3.0V	**G =** -30°/+75°C	**50 =** ±50 ppm			
33 = +3.3V	**H =** -30°/+85°C	**100 =** ±100 ppm			
50 = +5.0V	**K =** -40°/+85°C				

* Note : Not all combinations are possible, please consult us.

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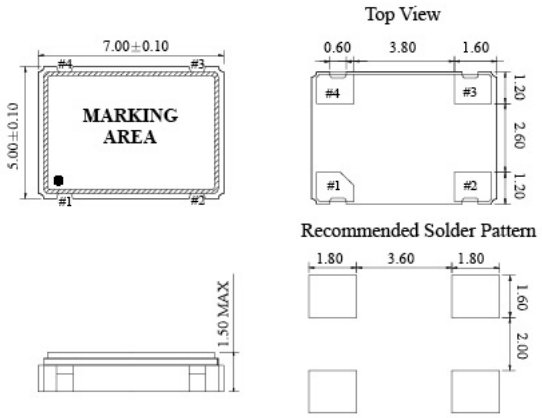
OUTLINE DIMENSIONS (mm)



Pin Connections	**#1** : E/D	**#2** : GND	**#3**: Output	**#4** : Vdd

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