SX7C — HCMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

7.0 x 5.0 x 1.5 mm

- SMD package
- NOT recommended for new designs
- Wide Operating temperature range from -55°C to +125°C
- Applications : Wireless communications, PC main boards, ...

Item	Specification							
Frequency Range	25 kHz ~ 200.0 MHz							
Output Logic	CMOS							
Overall Frequency Stability*	± 10 ppm ~ ± 100 ppm (see options)							
Operating Temperature Range	0~+70°C commercial application (see options) -40 ~ +85°C industrial application (see options) -40 ~ +125°C automotive application (see options) -55 ~ +125°C (see options)							
Supply Voltage Vdd	+1.0V ±5%	+1.2V ±5%	+1.5V ±5%	+1.8V ±5%	+2.5V ±5%	+1.8V ~ 3.3V ±10%	+3.3V ±10%	+5.0V ±10%
Supply Current Idd	1 mA ~ 2 mA	4 mA ~ 10 mA	4 mA ~ 12 mA	5 mA ~ 20 mA	5 mA ~ 25 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 ~ 10 ns							
Tri-state function	pin #1 = high or open pin #1 = low			pin #3 = oscillation pin #3 = disable				
Standby current	10 µA max							
Start-up Time	5 ms max.							
RMS Jitter (12 kHz to 20 MHz band)	1 ps max.							
Packing Unit	1000pcs / reel							
Soldering Condition	260°C , 10 sec x2 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
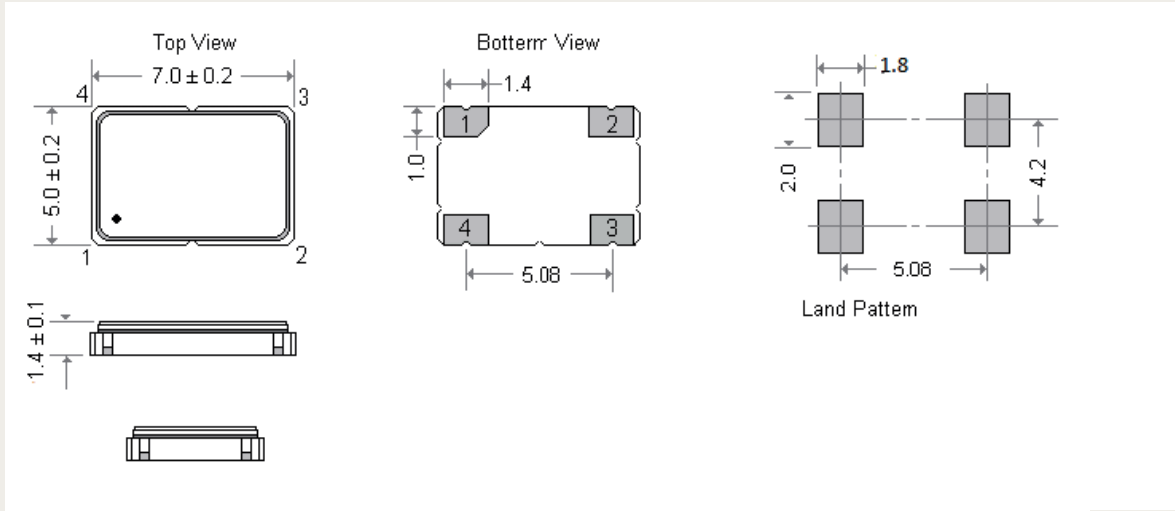
OPTIONS & ORDERING INFORMATION

SX7C .... - .... MHz

Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Output Load *	Frequency in MHz
10 = +1.0V	**D =** -10°/+60°C	**10 =** ±10 ppm	**E =** Tri-state	**Blanc =** 15 pF	Please specify the frequency in MHz
12 = +1.2V	**E =** 0°/+70°C	**15 =** ±15 ppm			
15 = +1.5V	**F =** -20°/+70°C	**20 =** ±20 ppm			
18 = +1.8V	**G =** -30°/+75°C	**25 =** ±25 ppm			
25 = +2.5V	**H =** -30°/+85°C	**30 =** ±30 ppm			
1V3 = +1.8V ~+3.3V	**K =** 40°/+85°C	**50 =** ±50 ppm			
33 = +3.3V	**L =** -40°/+105°C	**100 =** ±100 ppm			
50 = +5.0V	**M =** -40°/+125°C				
	N= -55°/+125°C				

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

OUTLINE DIMENSIONS (mm)

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