SX7CT

HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

FEATURES

- Miniature package
- Low current consumption
- Low cost
- Applications: Mobile phones, Portable radio equipment, ...

7.0 x 5.0 x 1.3 mm

Item	Specification						
Frequency Range	1.25 MHz ~ 54.0 MHz						
Output Signal	CMOS						
Supply Voltage Vdd (see options)	+1.8V ±5%	+2.5V ±5%	+2.8V ±5%	+3.0V ±5%	+3.3V ±5%	+5.0V ±5%	
Supply Current Idd	8 mA max	10 mA max	12 mA max	13 mA max	13 mA max	25 mA max	
Frequency Tolerance	±1.0 ppm at 25°C ±2°C						
Frequency Stability vs Temperature (see options)		**±0.5 ppm**	**±1.0 ppm**	**±1.5 ppm**	**±2.0 ppm**	**±2.5 ppm**	**±3.0 ppm**
	0° to +50°C	O	O	O	O	O	O
	-10° to +60°C	O	O	O	O	O	O
	-20° to +70°C	X	O	O	O	O	O
	-30° to +75°C	X	O	O	O	O	O
	-40° to +85°C	X	◊	O	O	O	O
	O = available	◊ = please contact us		X = not available			
Frequency Stability vs Aging	±1.0 ppm max. per year at 25°C						
Frequency Stability vs Voltage Change	±0.3 ppm max. , for a ±5% input voltage change						
Frequency Stability vs Load Change	±0.3 ppm max. , for a ±10% load condition change						
Output Level	VOH ≥ 0.9 Vdd			VOL ≤ 0.1 Vdd			
Output Load	15 pF						
Symmetry	45 / 55 %						
Rise / Fall time Fr/Ff	5 ns max.						
Tri-state function	pin #1 = high or open			pin #3 ==> oscillation			
	pin#1 = low			pin #3 ==> high impedance			
Start-up Time	5 ms typ. , 10 ms max.						
Integrated Phase Jitter (12 kHz to 20 MHz band)	1 ps max.						
Phase noise	-145 dBc/Hz typ. at 10 kHz offset						
Packing Unit	1000pcs / reel						
Soldering Condition	260°C , 10 sec x2 max						

Customer specifications on request

OPTIONS & ORDERING INFORMATION

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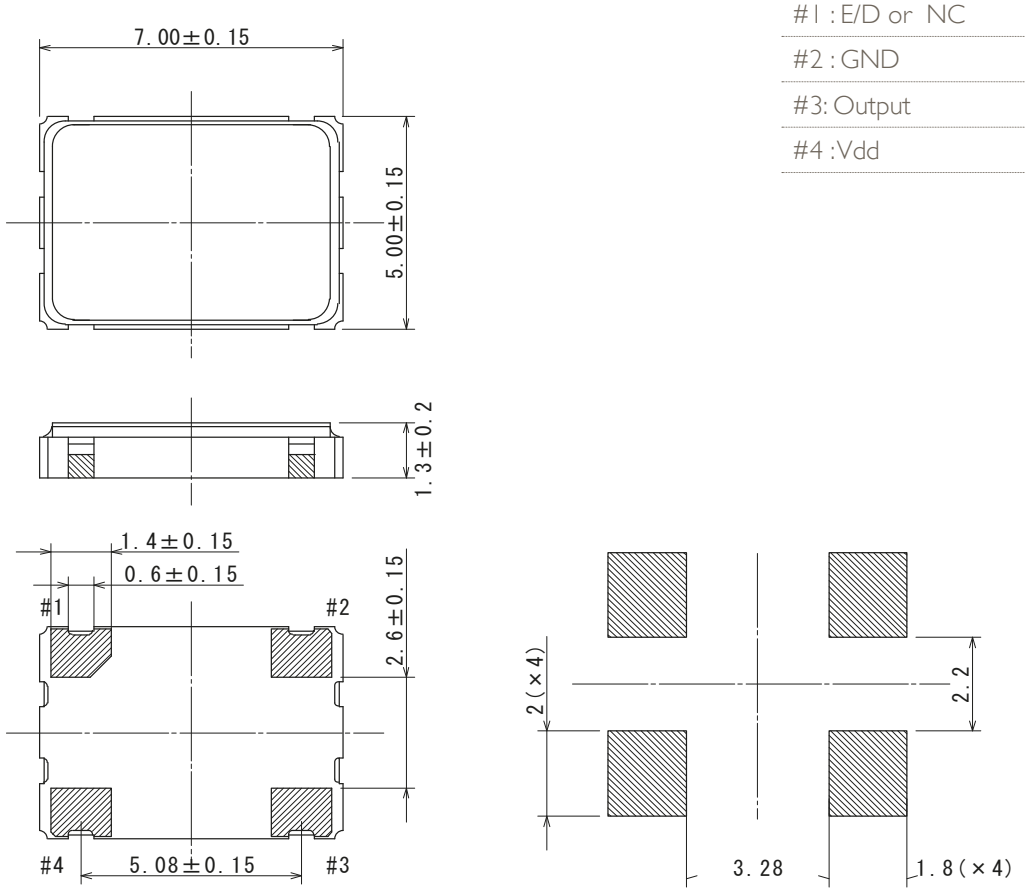
Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Frequency in MHz
18 = +1.8V	C = 0° / +50°C	0.5 = ±0.5 ppm	F = No Tri-state	4P = 4-pad version	Please specify the frequency in MHz
25 = +2.5V	D = -10° / +60°C	1.0 = ±1.0 ppm	E1 = Tri-state , pin #1		
28 = +2.8V	F = -20° / +70°C	1.5 = ±1.5 ppm			
30 = +3.0V	G = -30° / +75°C	2.0 = ±2.0 ppm			
33 = +3.3V	H = -30° / +85°C	2.5 = ±2.5 ppm			
50 = +5.0V	K = -40° / +85°C	3.0 = ±3.0 ppm			

MHz

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

OUTLINE DIMENSIONS (MM)



Pin Connections

#1 : E/D or NC
#2 : GND
#3: Output
#4 : Vdd