

Datasheet

SX3CT HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

FEATURES

- Ultra-miniature package
- High shock and vibrational resistivity
- Low current consumption
- Applications: Portable electronics, GPS , ...

3.5 x 2.5 x 1.0 mm


Item	Specification				
Frequency Range	4.0 MHz to 54.0 MHz				
Output Logic	CMOS				
Supply Voltage V _{dd} (see options)	+1.8 V ±5%	+2.5 V ±5%	+2.8 V ±5%	+3.0 V ±5%	+3.3 V ±5%
Supply Current I _{dd}	4 ~ 10 MHz	3.1 mA max.	3.1 mA max.	3.4 mA max.	3.4 mA max. 4.0 mA max.
	~ 20 MHz	3.7 mA max.	3.7 mA max.	4.1 mA max.	4.1 mA max. 4.8 mA max.
	~ 30 MHz	4.2 mA max.	4.2 mA max.	4.7 mA max.	4.7 mA max. 5.5 mA max.
	~ 40 MHz	4.6 mA max.	4.6 mA max.	5.2 mA max.	5.2 mA max. 6.0 mA max.
	~ 54 MHz	5.5 mA max.	4.8 mA max.	6.0 mA max.	6.0 mA max. 7.0 mA max.
Frequency Tolerance	±0.5 ppm at 25°C ±2°C				
Frequency Stability vs Temperature (see options)		±2.5 ppm	±3.0 ppm	±4.0 ppm	±5.0 ppm
	0° to +50°C	o	o	o	o
	-10° to +60°C	o	o	o	o
	-20° to +70°C	o	o	o	o
	-30° to +75°C	o	o	o	o
	o = 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 V _{dd}		VOL ≤ 0.1 V _{dd}		
Output Load	15 pF				
Symmetry	45 / 55%				
Rise Time / 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.				
RMS Jitter (12 kHz to 20 MHz band)	1 ps max.				
Phase noise	-145 dBc/Hz typ. at 10 kHz offset				
Packing Unit	3000 pcs / reel				
Soldering Conditions	260°C, 10 sec x2 max				

Customer specifications on request

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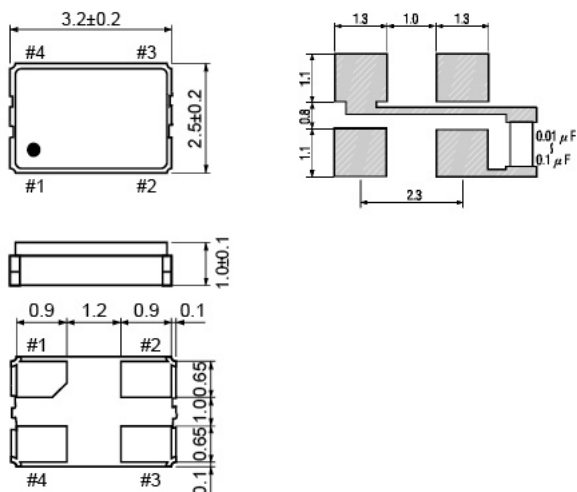
OPTIONS & ORDERING INFORMATION

SX3CT

Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Package Type	Frequency in MHz
18 = +1.8V	C = 0° / +50°C	2.5 = ±2.5 ppm	F = No Tri-state	4P = 4-pad version	Please specify the frequency in MHz
25 = +2.5V	D = -10° / +60°C	3.0 = ±3.0 ppm	E1 = Tri-state, pin #1		
28 = +2.8V	F = -20° / +70°C	4.0 = ±4.0 ppm			
30 = +3.0V	G = -30° / +75°C	5.0 = ±5.0 ppm			
33 = +3.3V					

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

OUTLINE DIMENSIONS



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

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