Frequency Technology

SX3CT

HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

Frequency Technology

FEATURES

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





Item	Specification								
Frequency Range	I.25 MHz ~ 54.0 MHz								
Output Signal	CMOS								
Supply Voltage Vdd (see options)	+1.8V ±5%	+1.8V ±5% +2.5V ±5% +2.8V ±5% +3.6			+3.0V ±5%	+3.3V ±5%			
Supply Current Idd	6 mA max								
Frequency Tolerance	±1.0 ppm at 25°C ±2°C								
Frequency Stability vs Temperature (see options)	0° to $+50^{\circ}$ C -10° to $+60^{\circ}$ C -20° to $+70^{\circ}$ C -30° to $+75^{\circ}$ C -40° to $+85^{\circ}$ C O = available	±0.5 ppm	±1.0 ppm	±1.5 ppm O O O O X = not avail	±2.0 ppm	±2.5 ppm	±3.0 ppm		
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 $\pm 10\%$ 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 # = high or open pin# = low			pin #3 ==> oscillation pin #3 ==> high impedance					
Start-up Time	5 ms typ., 10 ms max.								
Integrated Phase Jitter (12 kHz to 20 MHz band)	I ps max.								
Phase noise	-145 dBc/Hz typ. at 10 kHz offset								
Packing Unit	3000pcs / reel								
Soldering Condition	260°C , 10 sec x2 max								
Customer specifications on request									

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OPTIONS & ORDERING INFORMATION

SX3CT						MHz	
	Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Frequency in MHz	
	18 = +1.8V	C = 0° / +50°C	$0.5 = \pm 0.5 \text{ ppm}$	F = No Tri-state	4P = 4-pad version	Please specify the	
	25 = +2.5V	D = -10° / +60°C	$1.0 = \pm 1.0 \text{ ppm}$	EI = Tri-state , pin # I		frequency in MHz	
	28 = +2.8V	F = -20° / +70°C	$1.5 = \pm 1.5 \text{ ppm}$				
	30 = +3.0V	G = -30° / +75°C	$2.0 = \pm 2.0 \text{ ppm}$				
	33 = +3.3V	H = -30° / +85°C	$2.5 = \pm 2.5 \text{ ppm}$				
		K = -40° / +85°C	$3.0 = \pm 3.0 \text{ ppm}$				

 $[\]ensuremath{^{\circ}}$ Note : Not all combinations are possible , please consult us.

OUTLINE DIMENSIONS (MM)

