

SX7CTT HCMOS SURFACE MOUNT TEMPERATURE COMPENSATED CRYSTAL CLOCK OSCILLATOR

FEATURES

7.0 x 5.0 x 1.9 mm

- Miniature package
- High precision for -10° to +70°C , ± 0.05 ppm
-40° to +85°C , ± 0.20 ppm
- Applications: Femtocell, Base stations, Wireless communications, ...



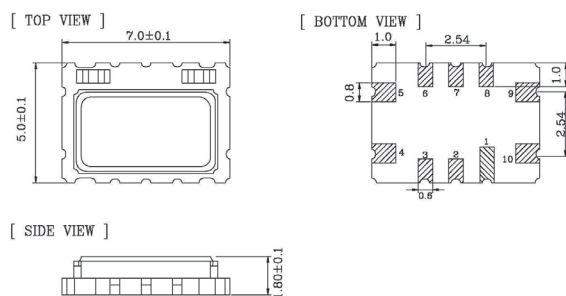
Item	Specification							
Frequency Range	5.0 MHz ~ 40.0 MHz							
Standard Frequency	10.000 ; 12.800 ; 16.384 ; 19.200 ; 19.440 ; 20.00 ; 25.000 ; 26.00							
Output Logic	CMOS							
Supply Voltage Vdd (see options)	+3.3 V ±5%		+5.0 V ±5%					
Supply Current Idd	6.0 mA max.							
Frequency Tolerance	±2.0 ppm max. at 25°C ±2°C (one hour after reflow)							
Frequency Stability vs Temperature (see options)		±0.05 ppm	±0.10 ppm	±0.14 ppm	±0.20 ppm	±0.28 ppm	±0.37 ppm	±0.5 ppm
	0° to +55°C	o	o	o	o	o	o	o
	-10° to +60°C	o	o	o	o	o	o	o
	-20° to +70°C	◊	o	o	o	o	o	o
	-40° to +85°C	x	x	x	o	o	o	o
	o = availabe	◊ = please contact us			x = not available			
Frequency Stability vs Aging	±1.0 ppm max. per year at 25°C							
Frequency Stability vs Voltage Change	±0.05 ppm max., for a ±5% input voltage change							
Frequency Stability vs Load Change	±0.05 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 Time / Fall Time Fr / Ff	10 ns max.							
Start-up Time	2.0 ms max.							
Tri-state function (Only possible for A-version package)	pin #8 = high or open		pin#5 ==> oscillation					
	pin #8 = low		pin#5 ==> high impedance					
Phase Noise	Offset / dBc / Hz		100 Hz	1 kHz	10 kHz			
	(typical)							
	12.800 MHz	-130 dBc / Hz	-145 dBc / Hz	-154 dBc / Hz				
Packing Unit	1000 pcs / reel							
Soldering Condition	260°C, 10 sec x2 max							

OPTIONS & ORDERING INFORMATION

SX7CTT					 MHz
Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function *	Package type	Frequency in MHz
33 = +3.3V	C = 0° / +55°C	0.05 = ±0.05 ppm	E8 = Tri-state, pin #8	A = A-version	Please specify the frequency in MHz
50 = +5.0V	D = -10° / +60°C	0.10 = ±0.10 ppm	F = No Tri-state	B = B-version	
	F = -10° / +70°C	0.14 = ±0.14 ppm			
	K = -40° / +85°C	0.20 = ±0.20 ppm			
		0.28 = ±0.28 ppm			
		0.37 = ±0.37 ppm			
		0.50 = ±0.50 ppm			

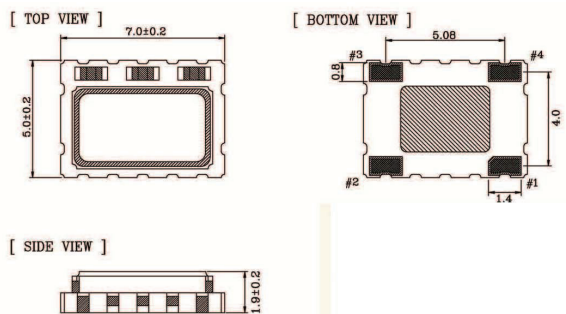
(*) Note : Not all combinations are possible, please consult us.

OUTLINE DIMENSIONS



A-Version

Pin Connections	#1 : NC	#2 : NC	#3 : NC	#4 : GND	#5 : Output
	#6 : NC	#7 : NC	#8 : E/D	#9 : Vdd	#10 : GND



B-Version

Pin Connections	#1 : GND	#2 : GND	#3 : Output	#4 : Vdd
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