ency Technology Frequency Technology

SX7ST

CLIPPED SINE WAVE SURFACE MOUNT TCXO

FEATURES

- Miniature package
- Tight stability
- Low power consumption
- Applications: GPS, Mobile phone, WLAN, Base stations, ...





Item	Specification									
Frequency Range	9.6 MHz to 50.0 MHz									
Output Logic	Clipped Sine Wave									
Supply Voltage Vdd (see options)	+2.8 V ±5%	+3.0 V ±5%	+3.3 V ±5%	6 +5.0 V	±5%					
Supply Current Idd	≤ 15 MHz 15 - 26 MHz > 26 MHz	1.5 mA max 2.0 mA max 2.5 mA max								
Frequency Tolerance	±2.0 ppm max. at 25°C ±2°C (one hour after reflow)									
Frequency Stability vs Temperature		±0.5 ppm	±1.0 ppm	±1.5 ppm	n ±2.0 ppm	±2.5 ppm	±3.0 ppm			
(see options)	-10° to +60°C	0	0	0	0	0	0			
	-20° to +70°C	0	0	0	0	0	0			
	-30° to +75°C	0	0	0	0	0	0			
	-30° to +85°C	◊	0	0	0	0	0			
	-40° to +85°C	◊		0	0	0	0			
	o = availabe									
Frequency Stability vs Aging	±1.0 ppm max. per year at 25°C									
Frequency Stability vs Voltage Change	±0.2 ppm max., for a ±5% input voltage change									
Frequency Stability vs Load Change	±0.2 ppm max., for a ±10% load condition change									
Output Level	≥0.8 V p-p									
Output Load	10 kΩ // 10 pF									
Phase Noise	Offset / dBc / Hz (typical)	100 H		1 kHz	10 kHz					
	13.0 MHz	-115 dBc	/ Hz -135	dBc / Hz	-148 dBc / Hz					
Start-up Time	3 ms max.									
Packing Unit	1000 pcs / reel									
Soldering Condition	260°C, 10 sec x2 max									
	Customer specifications on request									

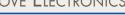
OPTIONS & ORDERING INFORMATION

SX7ST						MHz
071701						IVIПZ
	Supply Voltage	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Frequency in MHz
	28 = +2.8V	$D = -10^{\circ} / +60^{\circ}C$	0.5 = ±0.5 ppm	F = No Tri-state	4P = 4-pad version	Please specify the
	30 = +3.0V	F = -20° / +70°C	1.0 = ±1.0 ppm			frequency in MHz
	33 = +3.3V	G = -30° / +75°C	1.5 = ±1.5 ppm			
	50 = +5.0V	H = -30° / +85°C	2.0 = ±2.0 ppm			
		K = -40° / +85°C	2.5 = ±2.5 ppm			
			3.0 = ±3.0 ppm			

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



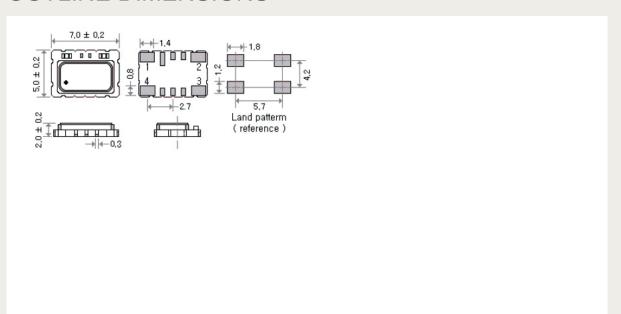






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OUTLINE DIMENSIONS



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





