

SX2SVT

CLIPPED SINE WAVE SURFACE MOUNT VCTCXO

FEATURES

- Ultra miniature package
- Tight stability
- Applications: GPS, Mobile phone, WLAN, ...

2.5 x 2.0 x 0.8 mm



Item	Specification							
Frequency Range	10.0 MHz to 52.0 MHz							
Output Logic	Clipped Sine Wave							
Supply Voltage V _{dd} (see options)	+1.8 V ±5%	+2.5 V ±5%	+2.8 V ±5%	+3.0 V ±5%	+3.3V ±5%			
Supply Current I _{dd}	≤ 26 MHz	1.5 mA max.						
	> 26 MHz	2.0 mA max.						
Frequency Tolerance	±1.0 ppm max. at 25°C ±2°C (one hour after reflow)							
Frequency Stability vs Temperature (see options)		±0.5 ppm	±1.0 ppm	±1.5 ppm	±2.0 ppm	±2.5 ppm	±3.0 ppm	
	-10° to +60°C	o	o	o	o	o	o	
	-20° to +70°C	o	o	o	o	o	o	
	-30° to +75°C	∅	o	o	o	o	o	
	-30° to +85°C	∅	o	o	o	o	o	
	-40° to +85°C	∅	o	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	±0.2 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	100 Hz	1 kHz	10 kHz				
	(typical)							
	19.2 MHz	-115 dBc / Hz	-135 dBc / Hz	-148 dBc / Hz				
Start-up Time	3 ms max.							
Voltage Control Function	Control Voltage Range	Center voltage 1/2 V _{dd} , range ±1.0V						
	Frequency Pulling Range	±9 ppm min. to ±15 ppm max.						
	Linearity	10 % max.						
	Slope Polarity	Positive						
Packing Unit	3000 pcs / reel							
Soldering Condition	260°C, 10 sec x2 max							

Customer specifications on request

OPTIONS & ORDERING INFORMATION

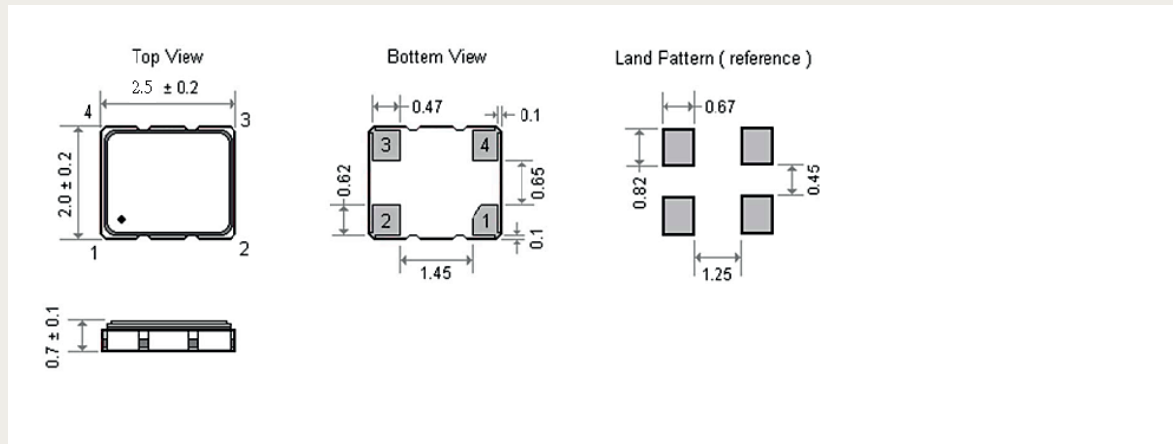
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Supply Voltage *	Operating Temp. *	Temperature Stability *	Tri-state Function	Package type	Pulling **	Frequency in MHz
18 = +1.8V	D = -10° / +60°C	0.5 = ±0.5 ppm	F = No Tri-state	4P = 4-pad version	09 = ±9 ppm min.	Please specify the frequency in MHz
25 = +2.5V	F = -20° / +70°C	1.0 = ±1.0 ppm				
28 = +2.8V	G = -30° / +75°C	1.5 = ±1.5 ppm				
30 = +3.0V	H = -30° / +85°C	2.0 = ±2.0 ppm				
33 = +3.3V	K = -40° / +85°C	2.5 = ±2.5 ppm				
		3.0 = ±3.0 ppm				

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

(**) Other pulling range is available on customer specification.

OUTLINE DIMENSIONS



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