

C18SVT

CLIPPED SINE WAVE SURFACE MOUNT VCTCXO

FEATURES

- Metal SMD case
- Wide frequency range
- Many options available
- Applications: Base Stations, Test equipment, ...

18.3 x 11.7 x 4.5 mm



Item	Specification							
Frequency Range	1.0 MHz to 125.0 MHz							
Output Logic	Clipped Sine Wave							
Supply Voltage V _{dd} (see options)	+3.3 V ±5%		+5.0 V ±5%					
Supply Current I _{dd}	10 mA max			15 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	
	0° to +50°C	o	o	o	o	o	o	
	-10° to +60°C	◇	o	o	o	o	o	
	-20° to +70°C	x	o	o	o	o	o	
	-30° to +75°C	x	◇	o	o	o	o	
	-30° to +85°C	x	◇	◇	o	o	o	
	-40° to +85°C	x	◇	◇	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							
Start-up Time	3 ms max.							
Phase noise	Offset / dBc / Hz	10 Hz	100 Hz	1 kHz	10 kHz	100 kHz		
	(typical)							
	10.000 MHz	-95 dBc / Hz	-130 dBc / Hz	-140 dBc / Hz	-145 dBc / Hz	-150 dBc / Hz		
38.880 MHz	-85 dBc / Hz	-110 dBc / Hz	-140 dBc / Hz	-150 dBc / Hz	-150 dBc / Hz			
Mechanical Frequency Tuning (see options)	±3.0 ppm min. tuning							
Voltage Control Function (see options)	Control Voltage Range	Center voltage +1.65 V, range ±1.35V			Center voltage +2.50 V, range ±2.0V			
	Frequency Pulling Range	±5 ppm min. ~ ±15 ppm min.						
	Linearity	10 % max.						
	Slope Polarity	Positive						
Input Impedance	10 kΩ min.							
Packing Unit	800 pcs / reel							
Soldering Condition	260°C, 10 sec x2 max							
	Customer specifications on request							

OPTIONS & ORDERING INFORMATION

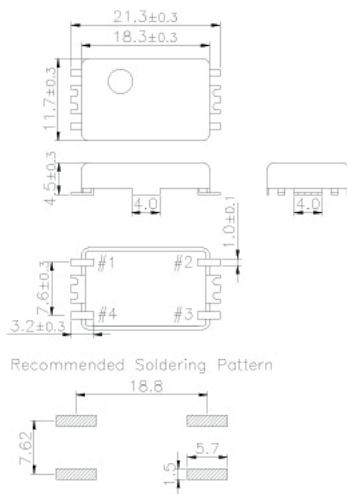
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Supply Voltage	Operating Temp. *	Temperature Stability*	Tri-state Function	Package type	Pulling **	Frequency in MHz	Mechanical Tuning
33 = +3.3V	C = 0° / +50°C	0.5 = ±0.5 ppm	F = No Tri-state	4P = 4-pad version	05 = ±5 ppm	Please specify the frequency in MHz	Blanc = No trimmer -T = Trimmer option
50 = +5.0V	D = -10° / +60°C	1.0 = ±1.0 ppm			10 = ±10 ppm		
	F = -20° / +70°C	1.5 = ±1.5 ppm			15 = ±15 ppm		
	G = -30° / +75°C	2.0 = ±2.0 ppm					
	H = -30° / +85°C	2.5 = ±2.5 ppm					
	K = -40° / +85°C	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