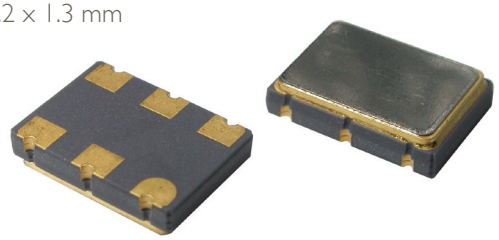
SX5CPV

HCMOS SURFACE MOUNT VOLTAGE CONTROLLED CRYSTAL CLOCK OSCILLATOR

FEATURES

- SMD package
- Programmable VCXO
- One day delivery

5.0 x 3.2 x 1.3 mm



Item	Specification	
Frequency Range	10.0 MHz ~ 245.0 MHz	
Output Signal	CMOS	
Overall Frequency Stability *	± 20 ppm ~ ± 100 ppm (see options)	
Operating Temperature Range	0 ~ +70°C commercial application (see options) -40 ~ +85°C industrial application (see options)	
Supply Voltage Vdd	+2.5V ±5%	+3.3V ±5%
Control voltage center	+1.25 V	+1.65 V
Control voltage range	0.2V to 2.3V	0.3V to 3.0V
Supply Current Idd	40 mA max (depends of frequency)	
Output Level	VOH ≥ 0.9 Vdd	VOL ≤ 0.1 Vdd
Output Load	15 pF	
Symmetry	45 / 55 %	
Rise / Fall time Fr/Ff	3.0 ns max.	
Tri-state function	pin #2 = high or open pin #2 = low	pin #4 ==> oscillation pin #4 ==> high impedance
Start-up Time	10 ms max.	
Integrated Phase Jitter (12 kHz to 20 MHz)	1.2 ps typical	
Phase Noise (typical)	**Offset** 10 Hz 100 Hz 1 kHz 10 kHz 100 kHz	**Frequency 122.880 MHz** -68 dBc / Hz -99 dBc / Hz -113 dBc / Hz -119 dBc / Hz -120 dBc / Hz
Frequency Pulling Range	±100 ppm min. ; ±150 ppm min. (see options)	
Linearity	6% typical ; 10% max.	
Slope Polarity	Positive (Increasing control voltage always increases output frequency)	
Modulation bandwidth	10 kHz min (-3 dB)	
Input impedance	1 MΩ typ.	
Packing Unit	1000pcs / reel	
Soldering Condition	260°C , 10 sec x2 max	

(*) Includes initial tolerance @+25°C , stability over operating temperature , stability vs. load change , stability vs. supply change and one year aging

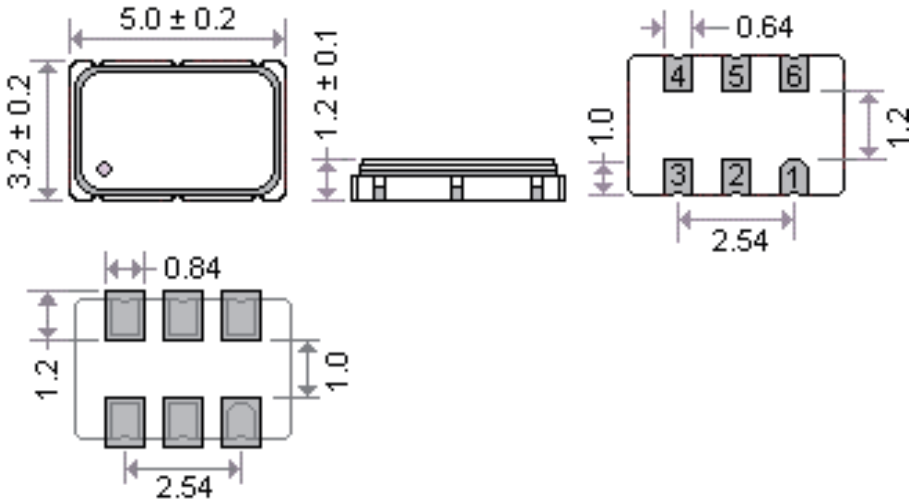
OPTIONS & ORDERING INFORMATION

SX5CPV .... MHz

Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Package type	Pulling *	Frequency in MHz
25 = +2.5V	E = 0° / +70°C	20 = ±20 ppm	E2 = Tri-state ,	6P = 6-pad version	100 = ±100 ppm min.	Please specify the frequency in MHz
33 = +3.3V	F = -20° / +70°C	25 = ±25 ppm	pad #2		150 = ±150 ppm min.	
	K = -40° / +85°C	30 = ±30 ppm				
		50 = ±50 ppm				
		100 = ±100 ppm				

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

OUTLINE DIMENSIONS (MM)



Pin Connections

#1 : Control voltage
#2 : E/D
#3: GND
#4 : Output
#5 : NC
#6 : Vdd