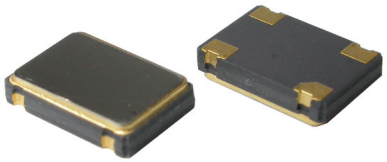
SX7CJ

HCMOS SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Standard SMD package
- Ultra Low Phase Noise oscillator
- RMS jitter 48 fsec.

7.0 x 5.0 x 1.5 mm



Item	Specification
Frequency Range	5.0 MHz ~ 50.0 MHz
Output Logic	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	+1.8V ±5% +2.5V ±5% +3.3V ±5%
Supply Current Idd	5 mA max. 7 mA max 10 mA
Output Level	VOH ≥ 0.9 Vdd VOL ≤ 0.1 Vdd
Output Load	15 pF
Symmetry	45 / 55 %
Rise / Fall time Fr/Ff	2 ~ 10 ns
Tri-state function	pin #1 = high or open pin #3 ==> oscillation pin#1 = low pin #3 ==> high impedance
Start-up Time	5 ms max.
RMS Jitter (12 kHz - 20 MHz)	48 fsec typ. (3.3V) , 115 fsec typ. (1.8V)
Phase Noise (typical)	**Offset** / **Frequency 49.152 MHz (3.3V)** 10 Hz -91 dBc / Hz 100 Hz -126 dBc / Hz 1 kHz -141 dBc / Hz 10 kHz -153 dBc / Hz 100 kHz -166 dBc / Hz 1 MHz -171 dBc / Hz 10 MHz -172 dBc / Hz
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

Customer specifications on request

B.C.E. ELECTRONICS
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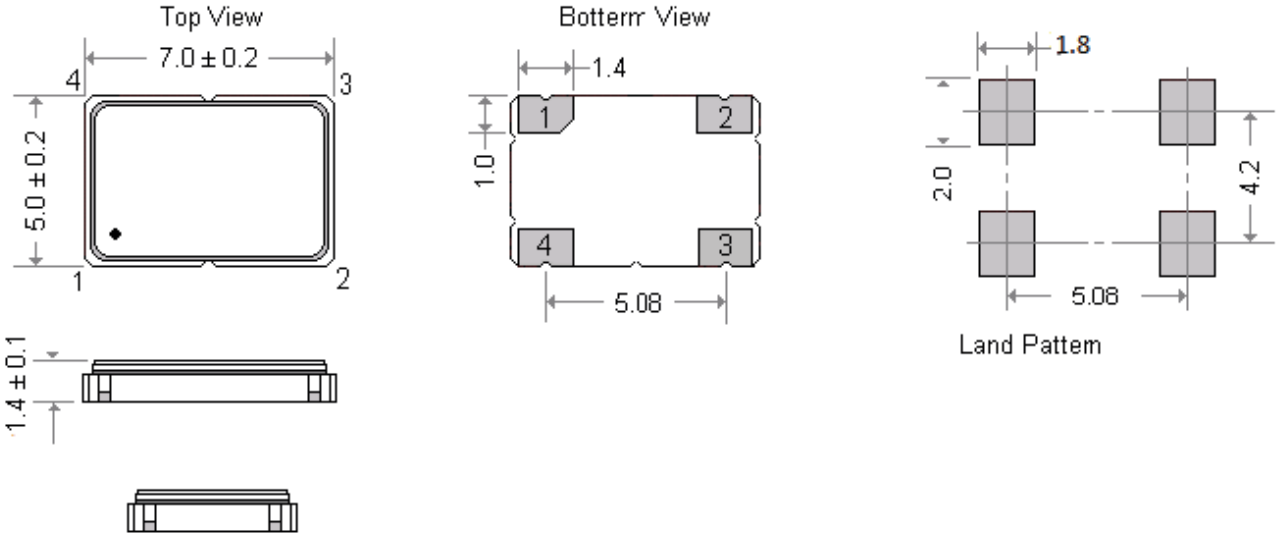
OPTIONS & ORDERING INFORMATION

SX7CJ .....MHz

Supply Voltage *	Operating Temp. *	Overall Stability *	Tri-state Function	Output Load *	Frequency in MHz
18 = +1.8V	D = -10° / +60°C	20 = ±20 ppm	E = Tri-state	blanc = 15 pF	Please specify the frequency in MHz
25 = +2.5V	E = 0° / +70°C	25 = ±25 ppm			
33 = +3.3V	F = -20° / +70°C	30 = ±30 ppm			
	G = -30° / +75°C	50 = ±50 ppm			
	H = -30° / +85°C	100 = ±100 ppm			
	K = -40° / +85°C				

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

OUTLINE DIMENSIONS (MM)



Pin Connections

#1 : E/D
#2 : GND
#3 : Output
#4 : Vdd

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