32.768KHz OSCILLATOR

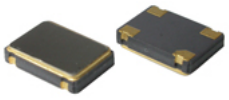
Datasheet

SX2K — 32.768 kHz SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Ultra-miniature package
- Low current consumption
- Extend temperature range available
- Applications: Wireless LAN, Bluetooth and mobile communication

2.5 x 2.0 x 0.8 mm



Item	Specification			
Frequency Range	32.768 kHz			
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%	+5.0V ±5%
Supply Current Idd	1.0 mA max		1.0 mA max	
Output Level	VOH ≥ 0.9 Vdd	VOL ≤ 0.1 Vdd		
Output Load	15 pF			
Symmetry	45 / 55 %			
Rise Time / Fall Time Fr/Ff	6 ns max			
Tri-state function	pin #1 = high or open pin #1 = low		pin #3 ==> oscillation pin #3 ==> high impedance	
Start-up Time	35 ms max.			
Packing Unit	3000pcs / reel			
Soldering Condition	260°C , 10 sec x2 max Customer specifications on request			

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

OPTIONS & ORDERING INFORMATION

SX2K

.....	.....	.....	.....	..... -	32.768 kHz
Supply Voltage	**Operating Temp. ***	**Overall Stability ***	**Tri-state Function**	**Output Load ***	**Frequency in kHz**
18 = +1.8V	D = -10° / +60°C	20 = ±20 ppm	E = Tri-state	Blanc = 15 pF	
25 = +2.5V	E = 0° / +70°C	25 = ±25 ppm			
33 = +3.3V	F = -20° / +70°C	30 = ±30 ppm			
50 = +5.0V	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.

Rev. 09-2012

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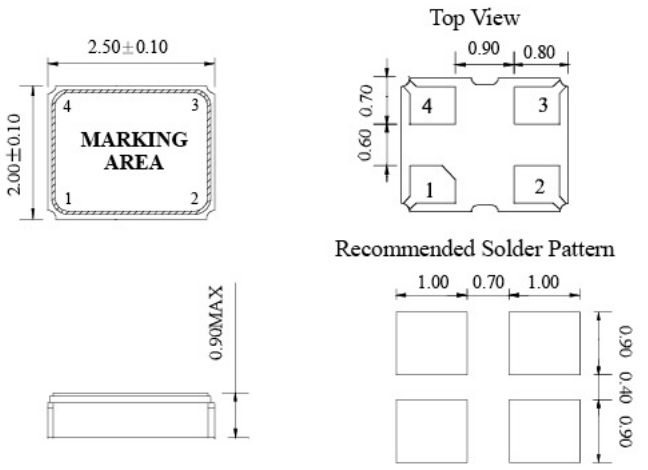
OUTLINE DIMENSIONS



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