Frequency Technology

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SX3KL

32.768 kHz SURFACE MOUNT CRYSTAL CLOCK OSCILLATOR

FEATURES

- Miniature package
- AT-cut crystal built-in
- Low power consumption of 65 μA (typ.)
- Supply voltage as wide as +1.8V to 5.0V
- Applications: Portable electronics,





Item	Specification					
Frequency Range	32.768 kHz					
Output Logic	CMOS					
Frequency stability	± 20 ppm typ . ~ ± 25 ppm max					
Operating Temperature Range	-40 ~ +85°C					
Supply Voltage Vdd	+1.8V ±5% +2.5V ±5% +3.0V ±5% +3.3V ±5% +5.0V ±5%					
Supply Current Idd	65 μA typ.					
Output Level	VOH ≥ 0.9 Vdd VOL ≤ 0.1Vdd					
Output Load	30 pF					
Symmetry	45 / 55 %					
Rise Time / Fall Time Fr/Ff	12 ns max.					
Tri-state function	pin #1 = high or open pin #3 ==> oscillation					
	pin #1 = low pin #3 ==> high impedance					
Start-up Time	1 ms max.					
Packing Unit	3000pcs / reel					
Soldering Condition	260°C, 10 sec x2 max					
	Customer specifications on request					

Customer specifications on request

OPTIONS & ORDERING INFORMATION

SX3KL						32.768 kHz
	Supply Voltage	Operating Temp. *	Overall Stability *	Tri-state Function	Output Load *	Frequency in kHz
	18 = +1.8V	K = -40° / +85°C	20 = ±20 ppm	E = Tri-state	H = 30 pF	
	25 = +2.5V		25 = ±25 ppm			
	30 = +3.0V		30 = ±30 ppm			
	33 = +3.3V					
	50 = +5.0V					

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





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

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OUTLINE DIMENSIONS







