HM International

Frequency Technology

European Crystal Organization

Frequency Technology

Frequency Technology

32.768 kHz

KLOVE ELECTRONICS

SX2KL

32.768 kHz SURFACE MOUNT CLOCK OSCILLATOR

FEATURES	2.5 x 2.0 x 0.9 mm			
 Ultra-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			
Overall Frequency Stability *	\pm 20 ppm typ . ~ \pm 25 ppm max			
Operating Temperature Range	-40°C to +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	$VOH \ge 0.9 Vdd$	$VOL \le 0.1 Vdd$		
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 reque	est		

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

OPTIONS & ORDERING INFORMATION

SX2KL

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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 = +2.58V		25 = ±25 ppm			
30 = +3.0V		30 = ±30 ppm			
33 = +3.3V					
50 = +5.0V					





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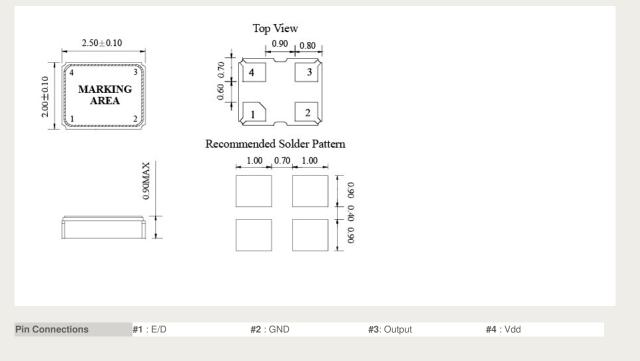
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OUTLINE DIMENSIONS





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