

## Clock Oscillator (时钟振荡器) - KS50

**Feature 特征** Low power consumption 低功率消耗

**Applications 应用**

- Computer control, railway measurement and control, intelligent systems, instrument, frequency sources 电脑控制, 铁路测控, 智能系统, 仪器仪表, 频率源等



RoHS  
Compliant  
KOAN

### General Specifications 规格参考

PARAMETER	性能参数	KS50			
Frequency Range	频率范围	0.25~50.0MHz	0.312~160.0MHz	0.312~200.0MHz	0.375~100.0MHz
Supply Voltage	供给电压	+1.2/1.5V(±10%)	+1.8/2.5V(±10%)	+3.3V(±10%)	+5.0V(±10%)
Output Logic	输出波形	CMOS			
Operating Temperature Range	输出负载	15pF			
Frequency Tolerance	调整频差	±5ppm ~ ±30ppm			
Current Consumption	工作电流	3~35mA			
Output Logic High "1"	输出电平 高	0.9V min; 0.1V max. @1.2V			
Output Logic Low "0"	输出电平 低	0.9V <sub>dd</sub> min; 0.1V <sub>dd</sub> max. @1.5/1.8/3.3/5.0V			
Jitter	抖动	0.05~0.3pS			
Rise & Fall Time	上升下降时间	10ns max			
Start-up Time	起振时间	10ms max			
Duty Cycle	占空比	45~55%			
Aging Per Year	老化率	±3ppm~±5ppm/year			
Storage Temperature Range	储存温度范围	-55°C ~ +125°C			

Frequency Stability 温度频差 VS Operating Temperature Range 温度范围						
Temp. Code	Temp.\ppm	±10	±20	±30	±50	±100
B	-20~70°C	○	○	○	○	○
C	-40~85°C		○	○	○	○
D	-20~105°C			○	○	○
E	-40~105°C				○	○
F	-55~105°C					○
G	-20~125°C					○

NOTE: Please consult for other specifications 若有其它规格需求请告知

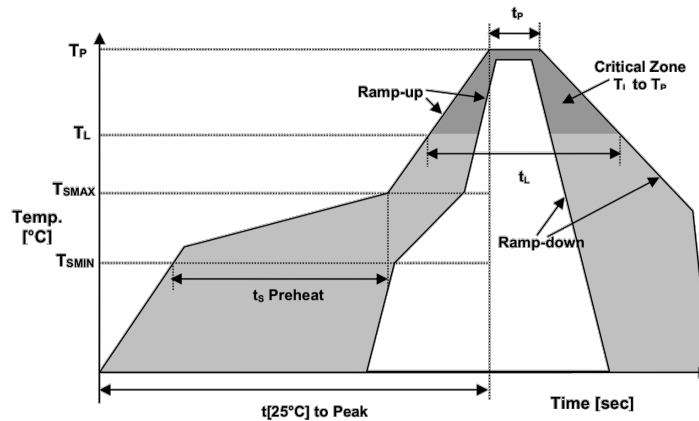
### Outline Dimensions (Unit: mm) 外形尺寸



### Part Number Guide 产品编号

型号	标称频率	工作电压	工作温度	温度频差	特殊要求
<b>KS50</b>	<b>20.000</b>	<b>33</b>	<b>C</b>	<b>30</b>	<b>NS</b>
'KS':产品系列 '50':封装尺寸 SMD5.0x3.2mm	(In MHz)	12=1.2V 15=1.5V 18=1.8V 25=2.5V 33=3.3V 50=5.0V	B: -20~+70°C C: -40~+85°C D: -20~+105°C E: -40~+105°C F: -55~+105°C G: -20~+125°C	10 = ±10ppm 20 = ±20ppm 30 = ±30ppm 50 = ±50ppm 100 = ±100ppm	'NS':特殊要求

## Reflow Profile 回流焊



Temperature Min Preheat	最低预热温度	$T_{smin}$	150°C
Temperature Max preheat	最高预热温度	$T_{smax}$	200°C
Time ( $T_{smin}$ to $T_{smax}$ )	时间差	$T_s$	60~120 sec
Temperature	温度	$T_L$	217°C
Peak Temperature	最高温	$T_p$	260 °C
Ramp-up Rate	升温速度	$R_{up}$	3°C/sec max
Ramp-down Rate	降温速度	$R_{down}$	6°C/sec max
Time within 5°C of Peak Temperature	最高温度停留时间	$t_p$	30 sec
Time t[25°C] to peak temperature	25度到最高温度时间	t[25°C] to peak	480 sec
Time	时间	$t_L$	60~150 sec