KOAN® Product Information (产品介绍)

Clock Oscillator (时钟振荡器) - KS32

RoHS Compliant KOAN

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

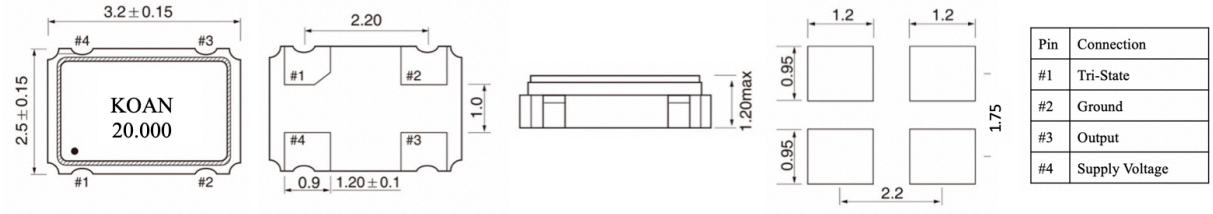
General Specifications 规格参考

PARAMETER	性能参数	KS32		
Frequency Range	频率范围	0.25~50.0MHz	0.312~160.0MHz	1.75~50.0MHz
Supply Voltage	供给电压	+1.2/1.5V (±10%)	+1.8/2.5/3.3V(±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" Output Logic Low "0"	输出电平 高 输出电平 低	0.9V min 0.1V max @1.2V	0.9Vdd min 0.1Vdd 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	年老化率	±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



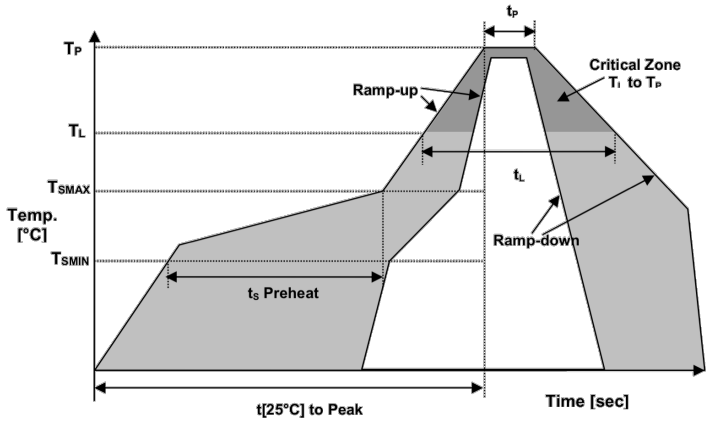
Pin	Connection
#1	Tri-State
#2	Ground
#3	Output
#4	Supply Voltage

Part Number Guide 产品编号

KS32 - **20.000** - **33** - **C** - **30** - **NS**

型号	-	标称频率	-	工作电压	-	工作温度	-	温度频差	-	特殊要求
'KS':产品系列 **'32':**封装尺寸 SMD3.2x2.5mm		(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