KOAN Product Information (产品介绍)

Clock Oscillator (时钟振荡器) - KJ70

Feature 特征 Low phase noise 0.2pS max (RMS 12KHz~20MHz) @ 3.3V

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

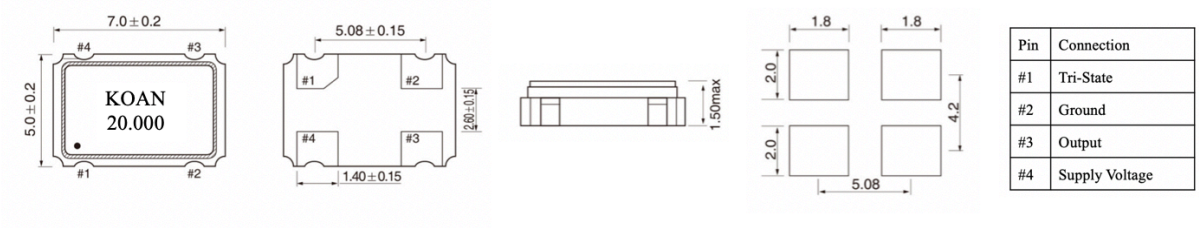
General Specifications 规格参考

PARAMETER	性能参数	KJ70
Frequency Range	频率范围	5.0MHz ~ 160.0MHz
Supply Voltage	供给电压	+3.3V (±10%)
Output Logic	输出波形	CMOS
Output Load	输出负载	15pF
Frequency Tolerance	调整频差	±5ppm ~ ±30ppm
Current Consumption	工作电流	25mA max
Output Logic High "1" Output Logic Low "0"	输出电平 高 输出电平 低	0.9Vdd min 0.1Vdd max
RMS Jitter [49.152MHz@3.3V]	抖动	0.2pS max (12KHz~20MHz)
Phase Noise [49.152MHz@3.3V]	相位噪声	-90dBc@10Hz; -100dBc@100Hz
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



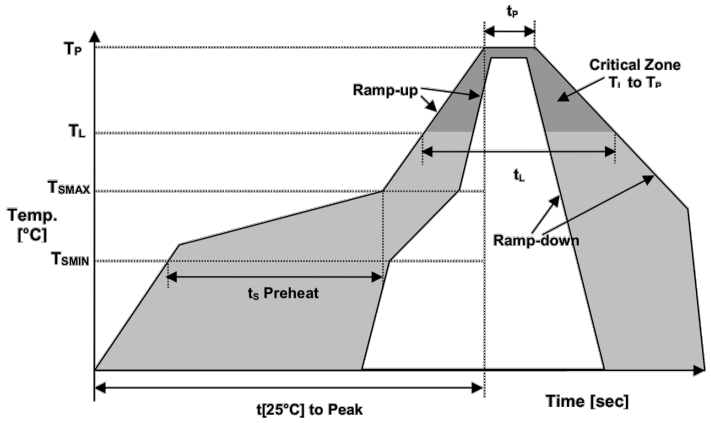
Pin	Connection
#1	Tri-State
#2	Ground
#3	Output
#4	Supply Voltage

Part Number Guide 产品编号

KJ70 - 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
'KJ':产品系列 K=KOAN J=低抖动 **'70':**封装尺寸 SMD 7.0x5.0mm		(In MHz)		33=3.3V		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