

Clock Oscillator (时钟振荡器) - KD706C

Feature 特征

- Differential (PECL, LVDS, HCSL) clock oscillator 差分输出
- Low phase jitter 0.2ps typ. 低相位抖动



RoHS
Compliant
KOAN

Applications 应用

- Mobile communications, radar navigation, digital products, HD monitoring, precision instruments
移动通信, 雷达导航, 数码产品, 高清监控, 精密仪器等

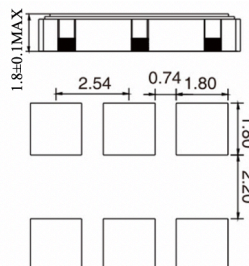
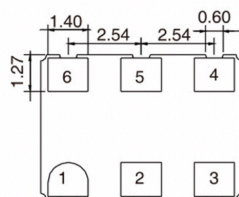
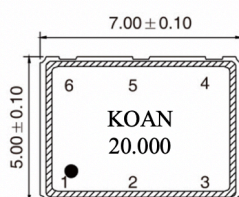
General Specifications 规格参考

PARAMETER	性能参数	KD706C
Frequency Range	频率范围	13.5MHz ~ 200.0MHz
Supply Voltage	供给电压	+2.5V/3.3V ($\pm 10\%$)
Output Logic	输出波形	HCSL
Output Load	输出负载	50 Ω to ground on each output
Frequency Tolerance	调整频差	$\pm 5\text{ppm} \sim \pm 30\text{ppm}$
Current Consumption	工作电流	30mA max
Output Logic High "1"	输出电平 高	660mV~850mV
Output Logic Low "0"	输出电平 低	-150mV~150mV
Output Voltage Swing	输出电压波动	620mV~780mV
RMS Jitter	抖动	0.2ps typ. (12KHz~20MHz)
Rise & Fall Time	上升下降时间	0.4ns max
Start-up Time	起振时间	10ms max
Duty Cycle	占空比	45~55%
Aging Per Year	年老化率	$\pm 3\text{ppm} \sim \pm 5\text{ppm}/\text{year}$
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

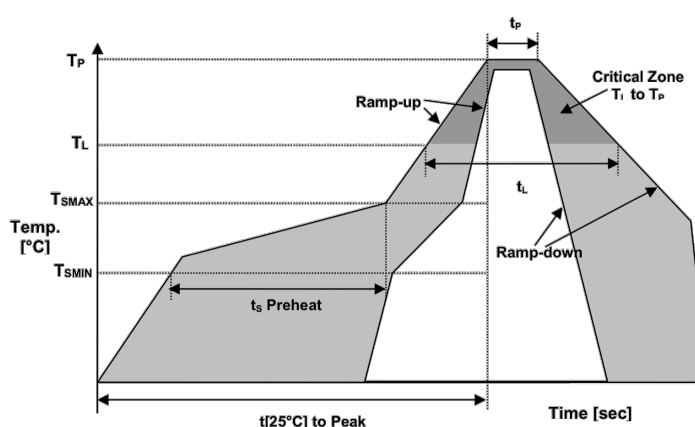


Pin	Connection
#1	Tri-State
#2	N.C.
#3	GND
#4	Comp.Output
#5	Out
#6	V _{DD}

Part Number Guide 产品编号

<u>KD706C</u>	-	<u>20.000</u>	-	<u>33</u>	-	<u>C</u>	-	<u>30</u>	-	<u>NS</u>
↓		↓		↓		↓		↓		↓
型号	-	标称频率	-	工作电压	-	工作温度	-	温度频差	-	特殊要求
'KD':产品系列 KOAN-DIFF 差分 '706':封装尺寸 SMD 7.0x5.0mm 6 pad 'C':输出波形 HCSL		(In MHz)		25=2.5V 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 $t[25^\circ\text{C}]$ to peak temperature	25度到最高温度时间	$t[25^\circ\text{C}]$ to peak	480 sec
Time	时间	t_L	60~150 sec