

Clock Oscillator (时钟振荡器) - KD256D

Feature 特征

- LVDS output with low phase jitter 0.2ps typ. LVDS 输出，低相位抖动



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

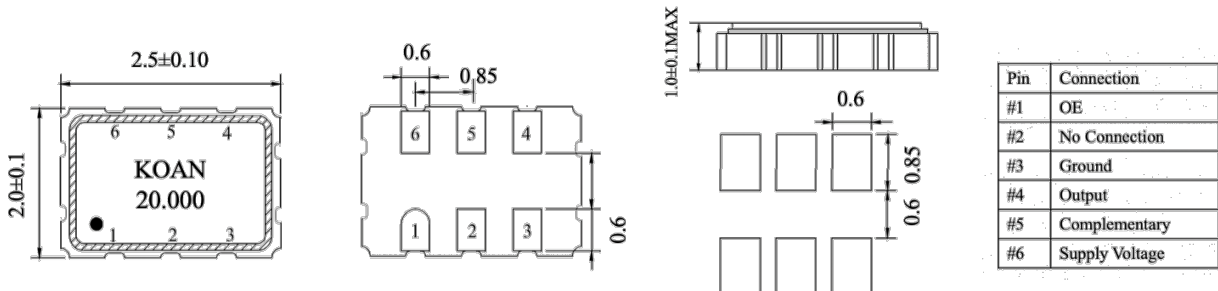
General Specifications 规格参考

PARAMETER	性能参数	KD256D
Frequency Range	频率范围	10.0MHz ~ 200.0MHz
Supply Voltage	供给电压	+2.5V/3.3V (±10%)
Output Logic	输出波形	LVDS
Output Load	输出负载	100Ω between output and comp. output
Frequency Tolerance	调整频差	±5ppm ~ ±30ppm
Current Consumption (16pF load)	工作电流	27mA max
Output Logic High "1"	输出电平 高	1.4V typ. 1.6V max
Output Logic Low "0"	输出电平 低	1.1V typ. 0.9V min
Output Voltage Swing	输出电压波动	250mV~450mV
Integrated Phase Jitter	抖动	0.2ps typ. 0.5ps max (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	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

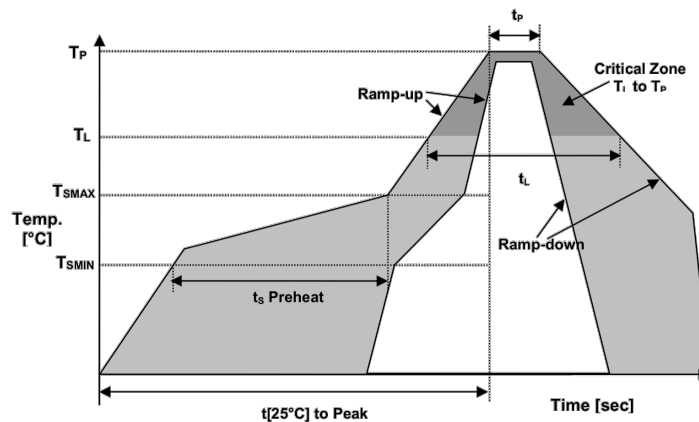
Outline Dimensions (Unit: mm) 外形尺寸



Part Number Guide 产品编号

<u>KD256D</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 '256':封装尺寸 SMD 2.5x2.0mm 6 pad 'D': 输出波形 LVDS		(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 $t[25°C]$ 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