

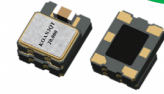
Temperature Compensated Crystal Oscillator (温补振荡器) - K(V)T326D

Feature 特征

- Frequency Stability reaches 0.5ppm -20~70°C 频率稳定度可达到 0.5ppm

Applications 应用

- Time benchmarking, mobile devices, wireless communications, precision meters, intelligent monitoring, etc. 时间基准, 移动设备, 无线通讯, 精密仪表, 智能监控等



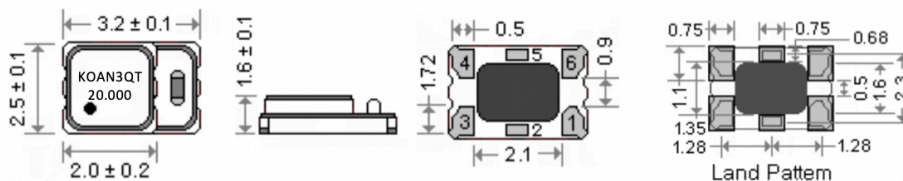
General Specifications 规格参考

PARAMETER	性能参数	TCXO: KT326D, VCTCXO: KVT326D	
Frequency Range	频率范围	10.0MHz~1.45GHz	
Supply Voltage	工作电压	+2.5V(±10%)	+3.3V(±10%)
Output Logic	输出波形	LVDS	
Output Load	输出负载	100Ω	
Initial Calibration Tolerance	调整频差	<± 1ppm at +25°C	
Frequency Stability 频率温度稳定度 V.S.			
Aging	老化率	±1.0ppm/year max	
Voltage Change	电压变化	±0.2ppm max for ±5% input voltage change	
Load Change	负载变化	±0.2ppm max for ±10% load condition change	
Reflow (SMD type)	回流焊 (SMD)	±1.0ppm max. 1 reflow and measured 24hs afterwards	
Output Level High '1'	输出电平 高	1.4V typ. 1.6V max.	
Output Level Low '0'	输出电平 低	1.1V typ. 0.9V min.	
Current Consumption	工作电流	36mA max	
Phase noise	相位噪声	1.1ps (12KHz~20MHz) @ 622MHz	
Rise & Fall Time	上升下降时间	0.2ns typ. 0.4ns max.	
Start-up Time	起振时间	5.0ms max.	
Storage Temperature Range	储存温度范围	-55°C~+125°C	
Control Voltage Function on Pad 1			
Control Voltage Center	中心控制电压范围	+1.5V±1.0V for both Vdd=2.5V/3.3V	
Frequency Pulling Range	电压调整	±8ppm min.	
Linearity	非线性误差	±1% typ. ±10% max.	
Input Impedance	输入电阻	770KΩ min.	
Harmonic	谐波抑制	-5.0dBc max.	

Frequency Stability 温度频差 VS Operating Temperature Range 温度范围						
Temp. Code	Temp. \ppm	±0.5	±1.0	±2.0	±3.0	±5.0
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

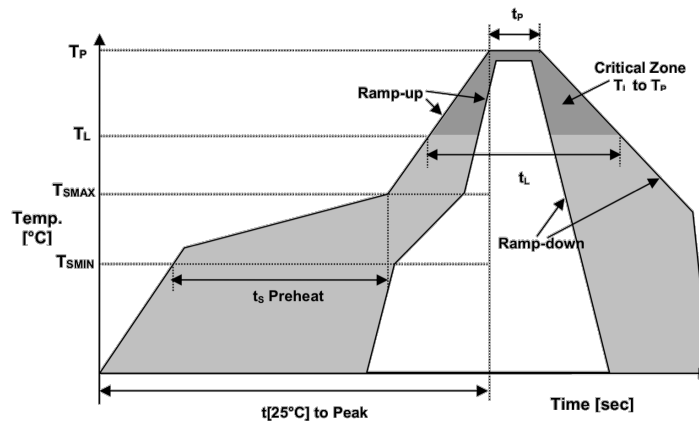


Pin	Connection
#1	No Connection for TCXO Voltage Control for VCTCXO
#2	Output Enable
#3	Ground
#4	CMOS: Output LVPECL/LVDS: Differential
#5	CMOS: No Connection LVPECL/LVDS: Complementary
#6	Supply Voltage

Part Number Guide 产品编号

<u>KT326D</u>	-	<u>20.000</u>	-	<u>33</u>	-	<u>C</u>	-	<u>03</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
'KT':产品系列 KT: TCXO KVT: VCTCXO '326':封装尺寸 SMD 3.2x2.5mm 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		A5 = ±0.5ppm 01 = ±1.0ppm 02 = ±2.0ppm 03 = ±3.0ppm 05 = ±5.0ppm		'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