

晶体振荡器 Crystals Oscillators Unit
 产品型号 HEVC21-14PIN DIP VCXO

产品特征 Features

- 全尺寸 Full-Size Dip
- 电压控制晶体振荡器 Voltage Controlled Crystals Oscillators
- 用途广 Wide Pullability Available
- 对称性好 Tight Symmetry Option
- 稳定性好和牵引范围宽 Tight Stability and Wide Pull Range

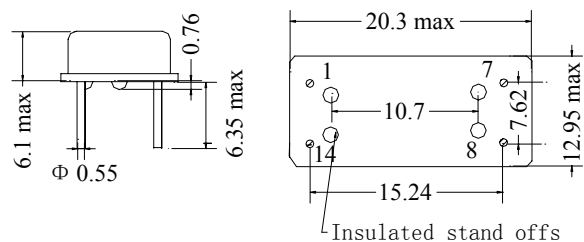


产品规格 Specification

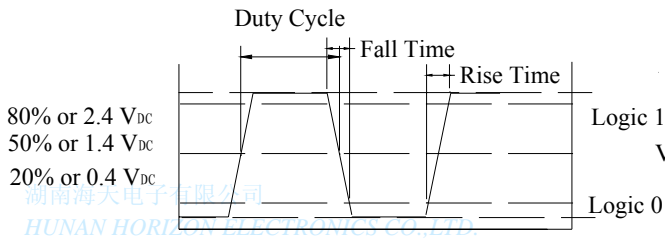
电性能参数 Parameter	规格 Specification		
频率范围 Frequency Range	1.8432~45.000MHz		
频率稳定度 Overall Frequency Stability [包括工作稳度、电源电压和负载]	±25ppm~±100ppm (Inclusive of Operating Temp., Supply Voltage & Load)		
工作温度 Operating Temperature	0°C ~70°C (See Options)		
储存温度 Storage Temperature	-55°C ~ 125°C		
输入电压 Supply Voltage (V _{DC})	HEVC21A	HEVC21B	
	+5.0±0.5 V _{DC}	+3.3±0.3 V _{DC}	
输入电流 Supply Current (I _{CC})			
	f ≤ 23.900 MHz	25mA max	15mA max
	24.000~45.000 MHz	45mA max	30mA max
对称性 (占空比) Symmetry (Duty Cycle)	40/60% Std./ 45/55% Avail. (See Options)		
	HEVC21A	HEVC21B	
逻辑输出电平 Output "0" Level (V _{OL})	0.4V _{DC} max.(TTL)	0.4V _{DC} max.(TTL)	
	0.5V _{DC} max.(HCMOS)	0.4V _{DC} max.(HCMOS)	
逻辑输出电平 Output "1" Level (V _{OH})	2.4V _{DC} min.(TTL).	2.4V _{DC} min.(TTL).	
	4.5V _{DC} min (HCMOS)	4.7V _{DC} min (HCMOS)	
上升和下降时间 Rise and Fall Time	10ns max <5ns typical		
启动时间 Start Time	10ms max <5ms typical		
老化率 Ageing @ 25°C ±3°C	±3 ppm typical first year, ±10 ppm 10 years		
电压控制 Voltage Control	+2.5V for 5V	+ 1.65 V for 3.3 V	
电压控制范围 Control Voltage Range	+0.5V~+4.5V	+0.3V~+3.0V	
转移特性 Transfer Function \ 正转移(随着控制电压的增加, 输出频率增加。)	Positive Transfer (Increasing Control Voltage ,Increases Output Frequency)		
频率范围 Frequency Range	±50 ppm~ 200ppm		
输出负载 Output Load	10TTL\ 15 pf HCMOS		
所有规格如有变更, 不另行通知。 All Specifications Subject to Change Without Notice.			

外形尺寸 (单位:毫米) Figure and Dimensions(Unit: mm)

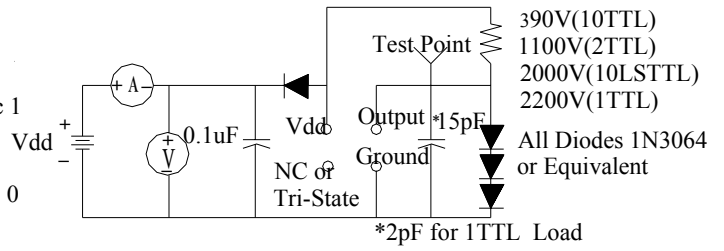
Pin	功能 Function
1	控制端 Control Terminal
7	外壳接地 Case Ground
8	输出 Output
14	输入电压 Supply Voltage (V _{DD})



全尺寸 Full Size 14 Pin Dip



波形图 HCMOS/TTL Waveform



测试电路 TTL Test Circuit

订购须知 Order Information

HEVC21□-Frequency- Temp.Range- Overall Freq.Stability-Duty Cycle-Option

HEVC21□	产品系列 Product Family Full Size 14 Pin Dip VCXO
Frequency	<ul style="list-style-type: none"> ■ HEVC21A for +5.0±0.5 V_{DC} ■ HEVC21B for +3.3±0.3 V_{DC}
Temp.Range	频率 Frequency(MHz) 工作温度 Operating Temperature <ul style="list-style-type: none"> ■ T₁ for 0°C~70°C ■ T₂ for -40°C~85°C ■ X for custom value
Overall	频率稳定度 Overall Frequency Stability <ul style="list-style-type: none"> ■ H₁ for±25 ppm max ■ H₂ for±50 ppm max ■ X for custom value
Duty Cycle	对称性 (占空比) Tight Symmetry (Duty Cycle) A for Tight Symmetry (45/55%)Duty Cycle B for Blank-None Required (40/60% Std)
Option	选型 Option <ul style="list-style-type: none"> ■ T For Tri-State ■ N For No Connection

订购举例: Example : HEVC21A-20.000MHz--T₁-H₁-A-T

HEVC21A	产品系列 Full Size 14 Pin Dip VCXO +5.0±0.5 V _{DC}
20.000MHz	频率 Frequency \ f ₀ =20.000MHz
T₁	工作温度 Operating Temperature \ T ₂ =0°C~70°C
H₁	频率稳定度 Overall Frequency Stability \ H ₁ =±25 ppm
A	对称性 (占空比) Symmetry (Duty Cycle) A for Tight Symmetry (45/55%)Duty Cycle
T	选型 Option \ T For Tri-State

[Http:// www.horizonxtal.com](http://www.horizonxtal.com)

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