

晶体振荡器 Crystals Oscillators Unit  
 产品型号 HEOC21-14PIN DIP

产品特征 Features

- 全尺寸 Full-Size Dip
- 时钟晶体振荡器 Clock Crystals Oscillators
- 兼容 HCMOS / TTL Compatible

湖南海天电子有限公司  
 HUNAN HORIZON ELECTRONICS CO.,LTD.

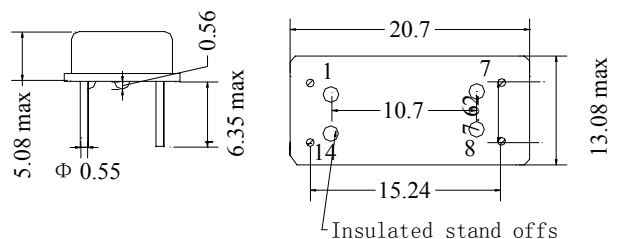


产品规格 Specification

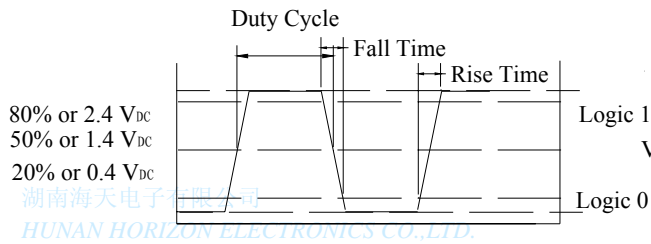
电性能参数 Parameter	规格 Specification	
频率范围 Frequency Range	500.000kHz~ 125.000MHz	
频率稳定度 Overall Frequency Stability [包括工作稳度、电源电压和负载]	±25ppm~±100ppm ( Inclusive of Operating Temp, Supply Voltage & Load )	
工作温度 Operating Temperature	0°C~70°C ( See Options )	
储存温度 Storage Temperature	-55°C ~ 125°C	
输入电压 Supply Voltage (V <sub>DC</sub> )	<b>HEOC21A</b> +5.0±0.5 V <sub>DC</sub>	<b>HEOC21B</b> +3.3±0.3 V <sub>DC</sub>
输入电流 Supply Current (I <sub>CC</sub> )		
500.000 kHz~23.900 MHz	15mA max	
24.000~49.9000 MHz	35mA max	
50.000~125.000 MHz	45mA max	
对称性 (占空比) Symmetry ( Duty Cycle )	40/60% Std./ 45/55% Avail. (See Options)	
逻辑输出电平 Output "0" Level (V <sub>OL</sub> )	<b>HEOC21A</b> 0.4V <sub>DC</sub> max.(TTL)	<b>HEOC21B</b> 0.4V <sub>DC</sub> max.(TTL)
	0.5V <sub>DC</sub> max.(HCMOS)	0.4V <sub>DC</sub> max.(HCMOS)
逻辑输出电平 Output "1" Level (V <sub>OH</sub> )	2.4V <sub>DC</sub> min.(TTL).	2.4V <sub>DC</sub> min.(TTL).
	4.5V <sub>DC</sub> min (HCMOS)	4.7V <sub>DC</sub> 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 first year	
输出负载 Output Load	10TTL/ 50pf HCMOS (up to 24.0MHz)	
	10TTL/ 15pf HCMOS	
三态功能 Tristate Function		
( Pin 1 Has Internal Pull-up Resistor Allowing It to be Left Floating High.)	V <sub>IH</sub> : 2.2v or Open Enables Output	
	V <sub>IL</sub> : 0.8v or Disables Output	
启用 \ 禁用时间	OutputEnable \ Disable Time:100ns max	
<b>所有规格如有变更，不另行通知。 All Specifications Subject to Change Without Notice.</b>		

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

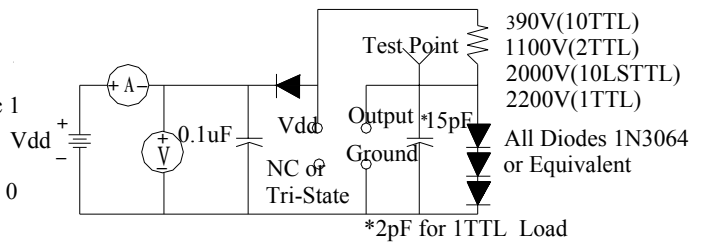
Pin	功能 Function
1	数控或三态 Nc or Tri-State
7	外壳接地 Case Ground
8	输出 Output
14	输入电压 Supply Voltage (V <sub>DD</sub> )



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

HEOC21□ -Frequency- Temp.Range- Overall Freq.Stability-Duty Cycle-Option

<b>HEOC21□</b>	产品系列 Product Family Full Size 14 Pin Dip
	<ul style="list-style-type: none"> <li>■ HEOC21A for <math>+5.0 \pm 0.5 V_{DC}</math></li> <li>■ HEOC21B for <math>+3.3 \pm 0.3 V_{DC}</math></li> </ul>
<b>Frequency</b>	频率 Frequency ( MHz )
<b>Temp.Range</b>	工作温度 Operating Temperature
	<ul style="list-style-type: none"> <li>■ T<sub>1</sub> for 0°C~70°C</li> <li>■ T<sub>2</sub> for -40°C~85°C</li> <li>■ X for custom value</li> </ul>
<b>Overall</b>	频率稳定度 Overall Frequency Stability
	<ul style="list-style-type: none"> <li>■ H<sub>1</sub> for <math>\pm 25</math> ppm max</li> <li>■ H<sub>2</sub> for <math>\pm 50</math> ppm max</li> <li>■ X for custom value</li> </ul>
<b>Duty Cycle</b>	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 )
<b>Option</b>	选型 Option
	<ul style="list-style-type: none"> <li>■ T For Tri-State</li> <li>■ N For No Connection</li> </ul>

订购举例: Example : HEOC21A-20.000MHz--T<sub>1</sub>-H<sub>1</sub>-A-T

<b>HEOC21A</b>	产品系列 Full Size 14 Pin Dip $+5.0 \pm 0.5 V_{DC}$
<b>20.000MHz</b>	频率 Frequency \ f <sub>0</sub> =20.000MHz
<b>T<sub>1</sub></b>	工作温度 Operating Temperature \ T <sub>2</sub> =0°C~70°C
<b>H<sub>1</sub></b>	频率稳定度 Overall Frequency Stability \ H <sub>1</sub> = $\pm 25$ ppm
<b>A</b>	对称性 ( 占空比 ) Symmetry ( Duty Cycle ) A for Tight Symmetry ( 45/55% ) Duty Cycle
<b>T</b>	选型 Option \ N For No Connection

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

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