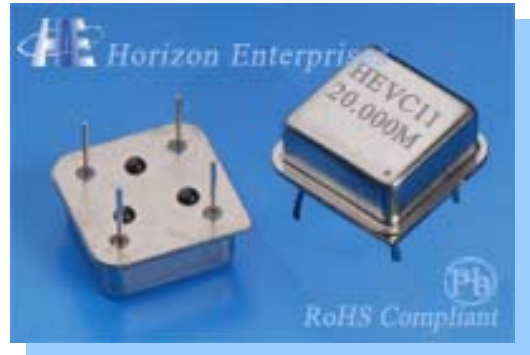


晶体振荡器 Crystals Oscillators Unit
 产品型号 HEVC11-8PIN DIP VCXO

产品特征 Features

- 半尺寸 Half-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
- 公差小牵引宽 Tight Stability and Wide Pull Range

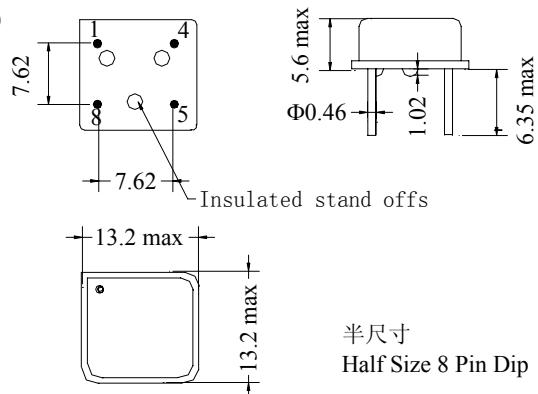


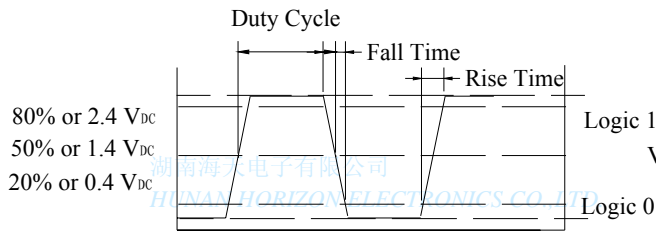
产品规格 Specification

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	±25ppm~±100ppm (Inclusive of Operating Temp.,		
[包括工作稳度、电源电压和负载]	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})	HEVC11A	HEVC11B	
	+5.0±0.5 V _{DC}	+3.3±0.3 V _{DC}	
输入电流 Supply Current (I _{CC})			
	f ≤ 23.900 MHz	30mA max	15mA max
	24.000~45.000 MHz	50mA max	30mA max
对称性 (占空比) Symmetry (Duty Cycle)	40/60% Std./ 45/55% Avail. (See Options)		
	HEVC11A	HEVC11B	
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.			

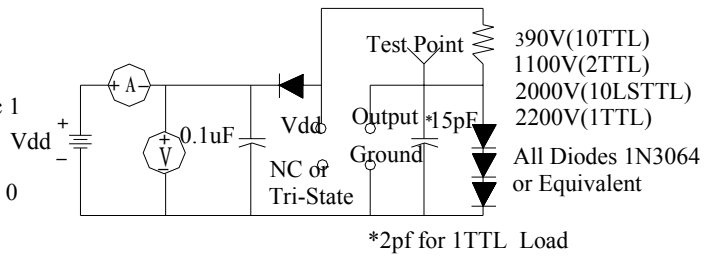
外形尺寸 (单位:毫米) Figure and Dimensions(Unit: mm)

Pin	功能 Function
1	控制电压 Voltage Control V _C
4	外壳接地 Case Ground
5	输出 Output
8	输入电压 Supply Voltage (V _{DD})





波形图 HCMOS/TTL Waveform



测试电路 TTL Test Circuit

订购须知 Order Information

HEVC11□-Frequency- Temp.Range- Overall Freq.Stability-Duty Cycle-Option

HEVC11□	产品系列 Product Family: Half Size 8 Pin Dip VCXO
Frequency	<ul style="list-style-type: none"> ■ HEVC11A for $+5.0 \pm 0.5 V_{DC}$ ■ HEVC11B for $+3.3 \pm 0.3 V_{DC}$
Temp.Range	频率 Frequency(MHz) 工作温度 Operating Temperature <ul style="list-style-type: none"> ■ T₁ for $0^{\circ}C \sim 70^{\circ}C$ ■ T₂ for $-40^{\circ}C \sim 85^{\circ}C$ ■ 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

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HUNAN HORIZON ELECTRONICS CO.,LTD

订购举例: Example : HEVC11B-20.000MHz--T₂-H₁-B-T

HEVC11B	产品系列 Half Size 8 Pin Dip VCXO $+3.3 \pm 0.3 V_{DC}$
20.000MHz	频率 Frequency \ f ₀ =20.000MHz
T₂	工作温度 Operating Temperature \ T ₂ =-40°C~85°C
H₁	频率稳定度 Overall Frequency Stability \ H ₁ = ± 25 ppm
B	对称性 (占空比) Symmetry (Duty Cycle) B for Blank-None Required (40/60% Std)
T	选型 Option \ T For Tri-State

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