

产品特征 Features

- 半尺寸 Half-Size Dip
- 时钟晶体振荡器 Clock Crystals Oscillators
- 兼容 HCMOS / TTL Compatible
- 快速上升和下降时间 Fast Rise and Fall Times

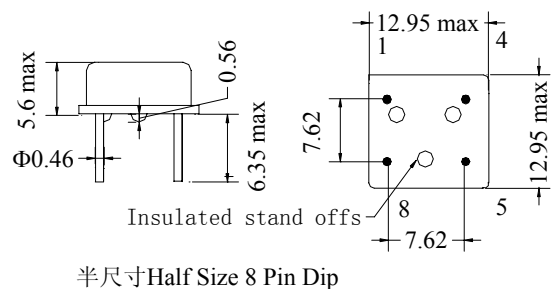


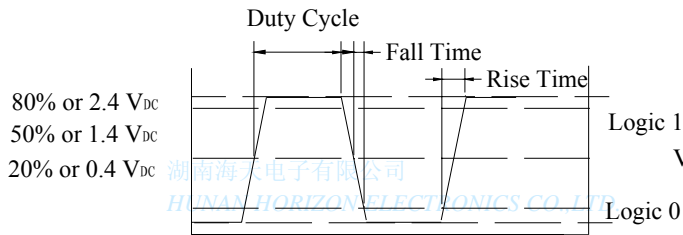
产品规格 Specification

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 _{DC})	HEOC11A	HEOC11B
	+5.0±0.5 V _{DC}	+3.3±0.3 V _{DC}
输入电流 Supply Current (I _{CC})		
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 _{OL})	HEOC11A	HEOC11B
	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})	HEOC11A	HEOC11B
	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	A\ ±3 ppm first year B\±5 ppm first year	
输出负载 Output Load	HEOC11A	
	10TTL/ 50pf HCMOS (up to 24.0MHz)	
	10TTL/ 15pf HCMOS	
	HEOC11B	
	10TTL/ 15pf HCMOS 50pf Load Available	
三态功能 Tristate Function		
(Pin 1 Has Internal Pull-up Resistor Allowing It to be Left Floating High.)	V _{IH} : 2.2v or Open Enables Output	
	V _{IL} : 0.8v or Disables Output	
三态启动 \ 停止时间	OutputEnable \ Disable Time:100ns max	
所有规格如有变更，不另行通知。 All Specifications Subject to Change Without Notice.		

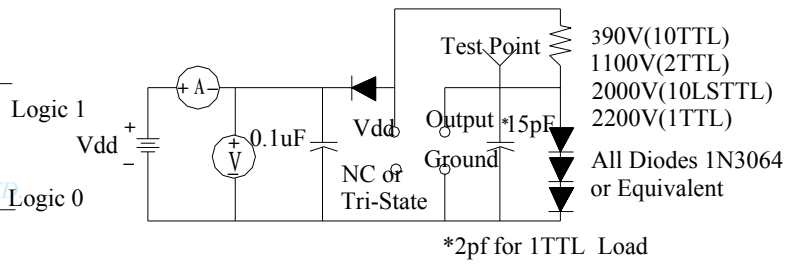
外形尺寸(单位:毫米) Figure and Dimensions(Unit: mm)

Pin	功能 Function
1	数控或三态 Nc or Tri-State
4	外壳接地 Case Ground
5	输出 Output
8	电源电压 Supply Voltage (V _{DD}).





波形图 HCMOS/TTL Waveform



测试电路 TTL Test Circuit

订购须知 Order Information

HEOC11□ -Frequency- Temp.Range- Overall Freq.Stability-Duty Cycle-Option

HEOC11□	产品系列 Product Family: Half Size 8 Pin Dip
Frequency	<ul style="list-style-type: none"> ■ HEOC11A for $+5.0 \pm 0.5 V_{DC}$ ■ HEOC11B 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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订购举例: Example : HEOC11B-20.000MHz--T₂-H₁-B-T

HEOC11B	产品系列 Half Size 8 Pin Dip $+3.3 \pm 0.3 V_{DC}$
20.000MHz	频率 Frequency \ $f_0 = 20.000MHz$
T₂	工作温度 Operating Temperature \ T ₂ = $-40^{\circ}C \sim 85^{\circ}C$
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 \ N For No Connection

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

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