

- **Crystal Oscillator (晶体振荡器) – VCXO series (压控晶振系列)**
- **Voltage Control Crystal Oscillator DIP VCX-200 Series (引线型压控晶振)**



● **Applications 用途:**  
 FM modulator, AFC circuit, PLL circuit, etc.  
 调频调幅器, 自动频率控制电路, 锁相环电路等。

- **Features 特征:**
- Metal package with resistance welded. 电阻封焊金属外壳。
  - Full & half size package for PCB assembly. 全形, 半形尺寸供不同电路板组装。
  - Frequency pullability  $\pm 240$  ppm max. 频率牵引范围可达  $\pm 240$ ppm 最大

● **Typical specifications 规格参数**

Model	型号	VCX-200F, VCX-200H	
Frequency range	频率范围	1.000 ~ 49.9MHz	
Nominal frequency	标称频率	8.192, 12.288, 16.384, 18.432, 24.576, 32.768, 35.328, 44.736MHz	
Frequency stability	总频差	$\pm 50 \times 10^{-6} [\pm 25 \times 10^{-6} \text{max.}]$	$\pm 50 \times 10^{-6} [\pm 30 \times 10^{-6} \text{max.}]$
Freq.variable range/control voltage	可变频 / 控制电压	$\pm 100 \times 10^{-6} \text{min.} / +2.5 \pm 2V, \pm 100 \times 10^{-6} \text{min.} / +1.65 \pm 1.65V^*$	
Operating temperature range	温度范围	-20 ~ +70 °C	-40 ~ +85 °C
Storage temperature range	储存温度	-40 ~ +85 °C	
Power supply voltage	供给电压	+3 ~ +5V ( $\pm 5\%$ )	
Current consumption	消耗电流	25mA:F $\leq$ 35MHz 35mA:F > 35MHz	
Output	出力	CMOS	TTL
Load	负载	15pF	2TTL
Output voltage	输出电压	“0” Level 0位 “1” Level 1位	VoL: 0.1Vdd max. VoH: 0.9Vdd min.
Rise & Fall time	上升及下降时间	10ns max. (at 10%-90%Vcc)	10ns max. (at 0.4-2.4VDC)
Symmetry	占空比	40 ~ 60% at 50%Vcc	40 ~ 60% at +1.4V
Phase noise (at 1.0KHz) **	相位噪声	-135 dBc/Hz max.: F < 12MHz ** -130 dBc/Hz max.: 12 $\leq$ F < 20MHz -125 dBc/Hz max.: 20 $\leq$ F < 40MHz	

● Please consult for other specifications. (若有其它规格需求请告知)

\* Vdd:+3.3V      \*\* Performance varies based on different specification. (性能的变化, 根据不同规格而定)

● **Outline Dimensions [Unit: mm] 外形尺寸**

