



## 压控晶体振荡器 (VCXO)

## ■ 技术指标:

| 指标名称<br>PARAMETER            |                                  | 值和单位<br>Value and Unit        | 条 件<br>conditions            |
|------------------------------|----------------------------------|-------------------------------|------------------------------|
| 标 称 频 率<br>Nominal Frequency |                                  | 1.000 - 60.00MHz              | 25℃                          |
| 频率稳定度<br>Frequency stability | 温度稳定度<br>VS Temperature          | $\leq \pm 25\text{ppm}$       | -20℃~+70℃                    |
|                              |                                  | $\leq \pm 50\text{ppm}$       | -40℃~+100℃                   |
|                              | 老化率<br>Aging                     | $\leq \pm 3.0\text{ppm}$      | First year                   |
|                              | 频率准确度<br>Calibration frequency   | $\leq \pm 25\text{ppm}$       | VC=VCC/2                     |
| 电调<br>Frequency control      | 压控电压:<br>Voltage Controlled      | 1.65V $\pm$ 1.65V             | VCC=3.3V                     |
|                              |                                  | 2.5V $\pm$ 2.5V               | VCC=5.0V                     |
|                              | 压控频率<br>Pullability              | $\pm 100\text{ppm min}$       | 1.65V $\pm$ 1.65V            |
|                              |                                  |                               | 2.5V $\pm$ 2.5V              |
|                              | 线性度<br>Linearity                 | 10% max                       |                              |
| 输出<br>Out signal             | 调节斜率<br>Slope                    | 正<br>Positive                 |                              |
|                              | 波形 wave                          | HCMOS                         |                              |
|                              | 幅度 level                         | VOH:3.0V min VOL:0.3V max     | VCC=3.3V                     |
|                              |                                  | VOH:4.5V min VOL:0.5V max     | VCC=5.0V                     |
|                              | 负载 load                          | 15Pf-30Pf                     |                              |
| 电源<br>Power                  | 占空比 Duty cycle                   | 45%~55%                       |                              |
|                              | 上升沿/下降沿<br>Rise/Fall time        | 5ns/5ns                       | 20%~80%                      |
|                              | 供电电压<br>Power Supply             | +3.3 $\times$ (1 $\pm$ 5%) V  |                              |
|                              |                                  | +5.0 $\times$ (1 $\pm$ 5%) V  |                              |
| 温度范围<br>Temperature Range    | 工作电流<br>Current consumption      | $\leq 15\text{mA}$            | +3.3 $\times$ (1 $\pm$ 5%) V |
|                              |                                  | $\leq 25\text{mA}$            | +5.0 $\times$ (1 $\pm$ 5%) V |
|                              | 工作温度<br>Operating temperature    | -20℃~+100℃                    |                              |
|                              | 储藏温度<br>Storage temperature      | -55~125℃                      |                              |
| Package                      | 外形尺寸(max)<br>Outside measurement | 7.0 $\times$ 5.0 $\times$ 1.3 | mm                           |

# Package:

Units: mm

