

## FULL SIZE (14PIN) VCTCXO-01



中山市锐晶电子有限公司  
Zhongshan Rojon Electronics Co.,LTD.

### FEATURE

- Low frequency (低频率)
- Low Cost (低成本)
- High Stability (高稳定)

### APPLICATION 实际应用

- 用于时钟时基 (CLOCK、Time base)
- 基站 (Base stations)
- 仪器仪表 (Instrument)
- 电力设备 (Power equipments)
- 网络设备 (Network equipments)

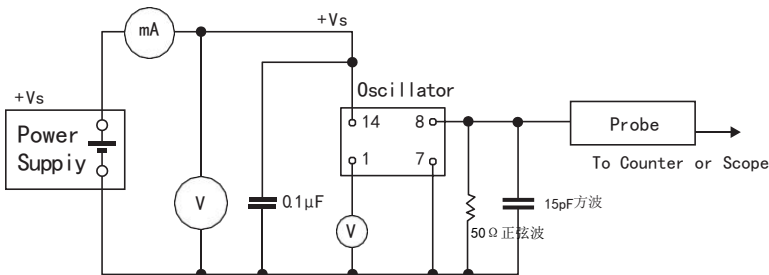


### Electrical Specifications 电气参数

| FULL SIZE (14PIN) VCTCXO-01 |                                                                                 |                                               |                                                                 |
|-----------------------------|---------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|
| 频率范围                        | 10KHz to 1000KHz                                                                |                                               |                                                                 |
| 典型频点 (KHz)                  | 10, 20, 32, 768, 40, 100, 500, 800                                              |                                               |                                                                 |
| 频率初始稳定度                     | $\pm 0.5 \text{ ppm } (25^{\circ}\text{C} \pm 3^{\circ}\text{C})$               |                                               |                                                                 |
| 频率温度稳定度                     | $\leq \pm 0.5 \text{ PPM}$                                                      | $\pm 1 \text{ PPM}$                           | $\pm 1.5 \text{ PPM}$                                           |
| 工作温度                        | $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$                                   | $-30^{\circ}\text{C} \sim 75^{\circ}\text{C}$ | $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$                   |
| 工作电压                        | $3.3 \pm 5\% \text{ V}$                                                         |                                               | $5.0 \pm 5\% \text{ V}$                                         |
| 输入电流                        | $\leq 20 \text{ mA}$                                                            |                                               | $\leq 30 \text{ mA}$                                            |
| 储存温度                        | $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$                                  |                                               |                                                                 |
| 输出特性                        | 方波                                                                              |                                               | 正弦波                                                             |
|                             | Load: 15PF, duty: 50 $\pm$ 5%<br>$V_{OH} \geq 90V_{DD}$ $V_{OL} \leq 0.1V_{DD}$ |                                               | 50 $\Omega$<br>$P \geq 3 \text{ dbm}$ $V_{pp} \geq 1 \text{ V}$ |
| 起动时间                        | $\leq 5 \text{ MS}$                                                             |                                               |                                                                 |
| 频率调节                        | 机械调                                                                             |                                               | 电调 (VC)                                                         |
|                             | $\geq 5 \text{ PPM}$                                                            |                                               | $\geq 8 \text{ PPM}$                                            |
| 尺寸 (mm)                     | $20.4 \times 12.8 \times 8 (\text{dip14})$                                      |                                               |                                                                 |
| 老化率                         | 第一年                                                                             |                                               | 10年                                                             |
|                             | $\leq 1 \text{ PPM}$                                                            |                                               | $\leq 5 \text{ PPM}$                                            |

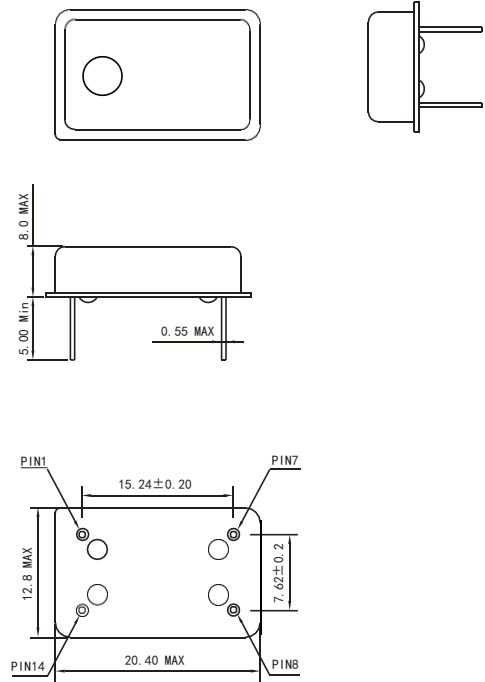
备注: 1、详细技术指标可按用户要求定制;  
2、产品环境条件按产品规范或用户要求;

### Test Circuit (测试电路)



### Mechanical Dimensions 外型尺寸

UNIT (单位): mm (毫米)



| 脚位<br>PIN | 脚位连接 Connection |       |
|-----------|-----------------|-------|
|           | VC-TCXO         | TCXO  |
| 1         | Vc              | N. C. |
| 7         | GND             |       |
| 8         | OUT             |       |
| 14        | Vcc             |       |

※Note: 0.01uF bypass capass capacitor should ben placed between Vcc (PIN14) and GND (PIN7) to Minimize power supply line noise.

