

## 温补晶体振荡器TCX0300.000000MHZ

### Features

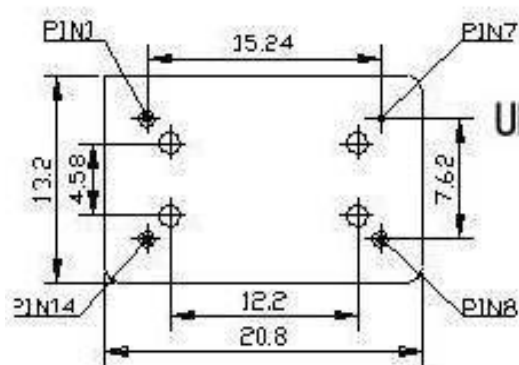
- voltage(3.3V~12.0V)
- Output Waveform(CMOS/TTL)
- Supports a WIDE FREQUENCY RANGE(300.000000MHZ)
- Versus Temperature Range:0.5ppm~1.5ppm
- Compact with dimensions of 20.8×13.2×8mm



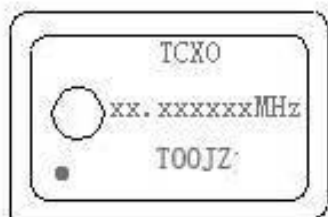
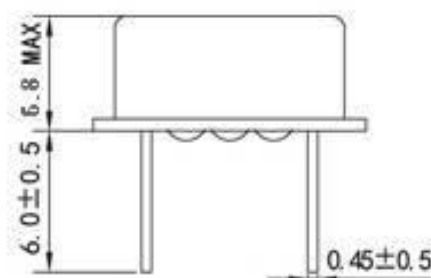
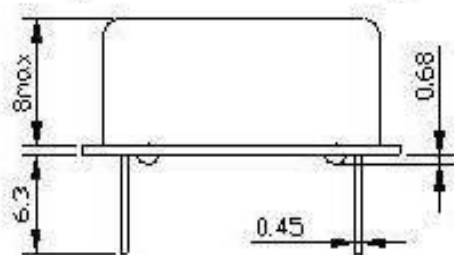
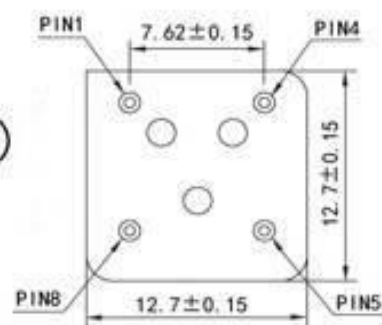
### Specifications

| 项目Item           | 技术Specifications                         |               |          | 备注Remarks          |
|------------------|--|---------------|----------|--------------------|
| 频率范围             | 300.000000MHZ                            |               |          | Fundamental AT-Cut |
| 初始稳定度            | ≤±0.5PPM                                 |               |          |                    |
| 工作温度             | -20℃ to 70℃                              | -40℃ to 85℃   |          |                    |
| 频率温度特性           | ≤±0.5PPM                                 |               | ≤±1.5PPM |                    |
| 电源电压             | 3.3Vdc                                   | 5.0Vdc        | 12Vdc    | ±5%V               |
| 电源电流             | ≤30MA                                    | ≤50MA         | ≤80MA    |                    |
| 储存温度             | -40℃ to 125℃                             |               |          |                    |
| 老化率              | 第一年                                      | 10年           |          | per Year           |
|                  | ≤1PPM                                    | ≤5PPM         |          |                    |
| 频率稳定性            | ±0.2PPM                                  |               |          | Vcc±5%(25℃)        |
| 相位噪声(22.5792M典型) | 典型值                                      |               |          |                    |
|                  | 100Hz                                    | -105 dBc/Hz   |          |                    |
|                  | 1KHz                                     | -130 dBc/Hz   |          |                    |
|                  | 10Hz                                     | -138 dBc/Hz   |          |                    |
|                  | 100KHz                                   | -140 dBc/Hz   |          |                    |
|                  | 1MHz                                     | -155 dBc/Hz   |          |                    |
| 起动时间             | ≤8MS                                     |               |          |                    |
| 输出特性             | 方波                                       | 正弦波           |          |                    |
|                  | 15PF, duty:50±3%<br>VOH≥90VDD VOH≤0.1VDD | 50Ω<br>VPP≥1V |          |                    |
| 尺寸(MM)           | 20.8×13.2×8(DIP14)                       |               |          |                    |
| 频率调节             | 机械调                                      | 电调(VC)        |          |                    |
|                  | ≥5PPM                                    | ≥8PPM         |          |                    |

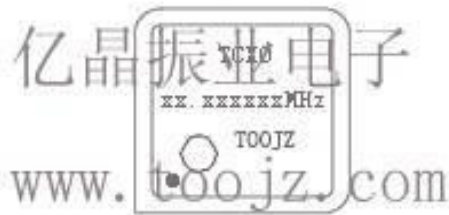
## ■ Dimensions



UNIT(单位):mm(毫米)



| PIN  | FUNCTION     |
|------|--------------|
| 1/1  | Vcon/NC      |
| 7/4  | GND          |
| 8/5  | Output       |
| 14/8 | Power Supply |



## ■ Test Circuit

