

# 深圳市晶科鑫实业有限公司



## 样品承认书

|           |                                                                                                                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 客户代码:     |                                                                                                                                                                                     |
| 物料名称:     | 贴片钟振                                                                                                                                                                                |
| 规格型号:     | SMD2520 OSC 基频低抖动100fs 100.000MHz 3.3V -40~85℃ LVDS                                                                                                                                 |
| P N/ SJK: | 2NJD100000D33DC                                                                                                                                                                     |
| 环保属性:     | <input checked="" type="checkbox"/> RoHS <input checked="" type="checkbox"/> REACH <input checked="" type="checkbox"/> HF <input type="checkbox"/> PAHS <input type="checkbox"/> 其它 |
| 版 次:      | A1 2026-5-10 初版                                                                                                                                                                     |
| 湿敏等级:     | 一级                                                                                                                                                                                  |

| 承 认 签 章    |     |     |                 |     |     |
|------------|-----|-----|-----------------|-----|-----|
| 供 应 商 承 认  |     |     | (     ) 公 司 承 认 |     |     |
| 制 定        | 审 核 | 核 准 | 工 程 师           | 审 核 | 批 准 |
| 贺丹斌        | 李相同 | 刘惠光 |                 |     |     |
| SJK 支持     |     |     | 盖章签署            |     |     |
| FAE_EMAIL  |     |     | 日        期      |     |     |
| 日        期 |     |     |                 |     |     |
| 备注：        |     |     |                 |     |     |

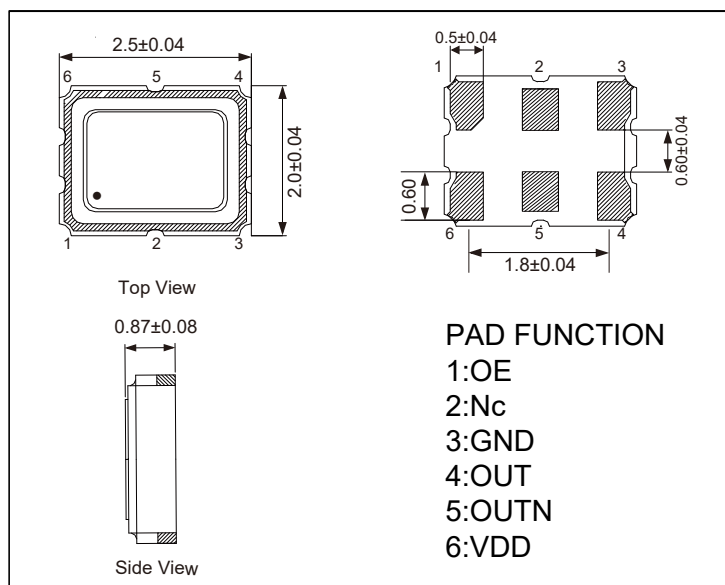
## ELECTRICAL SPECIFICATIONS

| Parmeters                   | Condition\Model  | 2NJD                             |
|-----------------------------|------------------|----------------------------------|
| Fan Out Type 输出模式           |                  | LVDS                             |
| Supply Voltage 供电电压         |                  | 3.3V±10%                         |
| Frequency 频率                |                  | 100.000MHz<br>(Fundamental mode) |
| Operating Temperature 工作温度  |                  | -40℃ to +85℃                     |
| Current 工作电流                |                  | 25mA Max                         |
| Frequency Stability 频率稳定度   | All Conditions   | ±50ppm                           |
| Output Voltage 输出电压         | Vol 低电平          | 0.9V Min                         |
|                             | VoH 高电平          | 1.6V Max                         |
| Rise/Fall Time 上升 / 下降时间    | 20%~80%          | 0.35ns Max                       |
| Duty Cycle 占空比              |                  | 50±5%                            |
| Storge Temperature 存储温度     |                  | -55~+125℃                        |
| Output Voltage Swing 输出电压摆幅 |                  | 250mV Min/450mV Max              |
| Start-upTime 启动时间           |                  | 10ms Max                         |
| Aging 年化率                   |                  | ±3ppm (first year at 25℃)        |
| RMS Jitter 相位抖动             | (12kHz to 20MHz) | 100 fs                           |
| Input Voltage 输入电压          | VIH 高电平          | 0.8 VCC Min                      |
|                             | VIL 低电平          | 0.2 VCC Max                      |

# Crystal oscillator SMD LVDS Output 2.5×2.0mm 2NJD Series



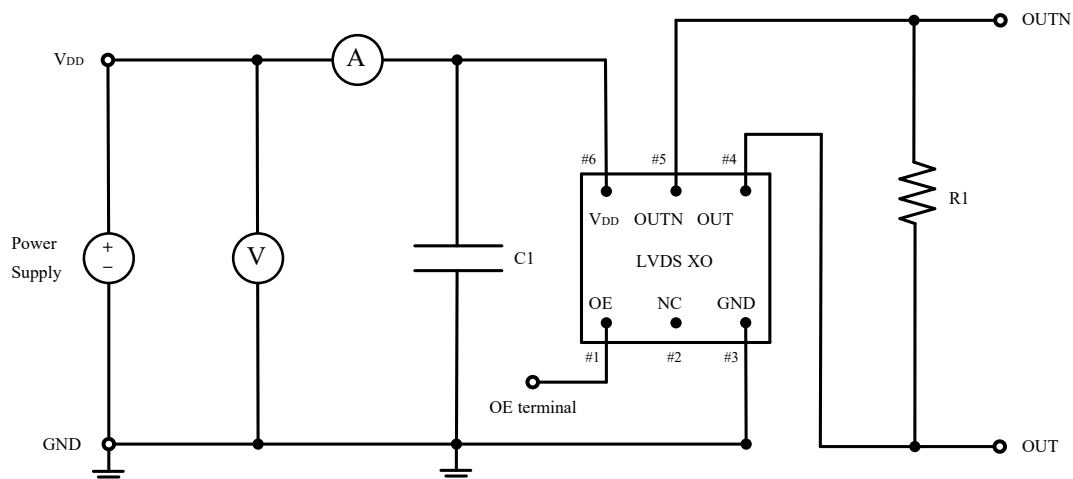
## DIMENSION (Unit: mm)



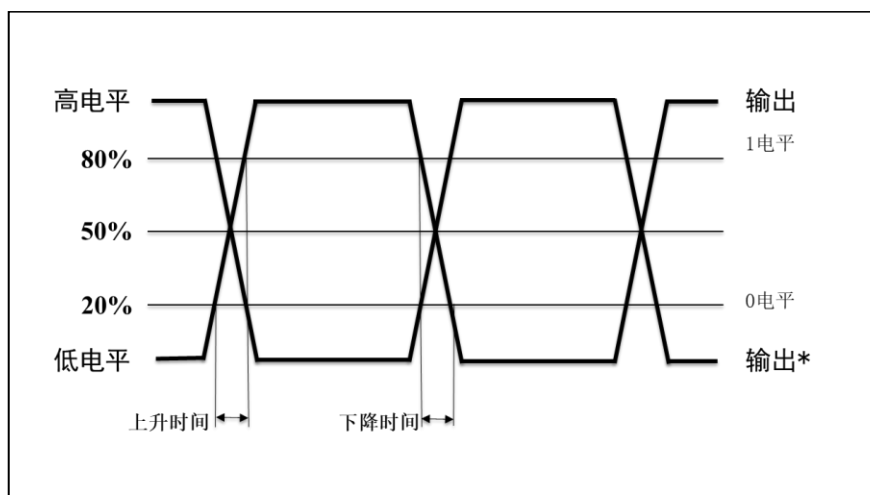
## MARK



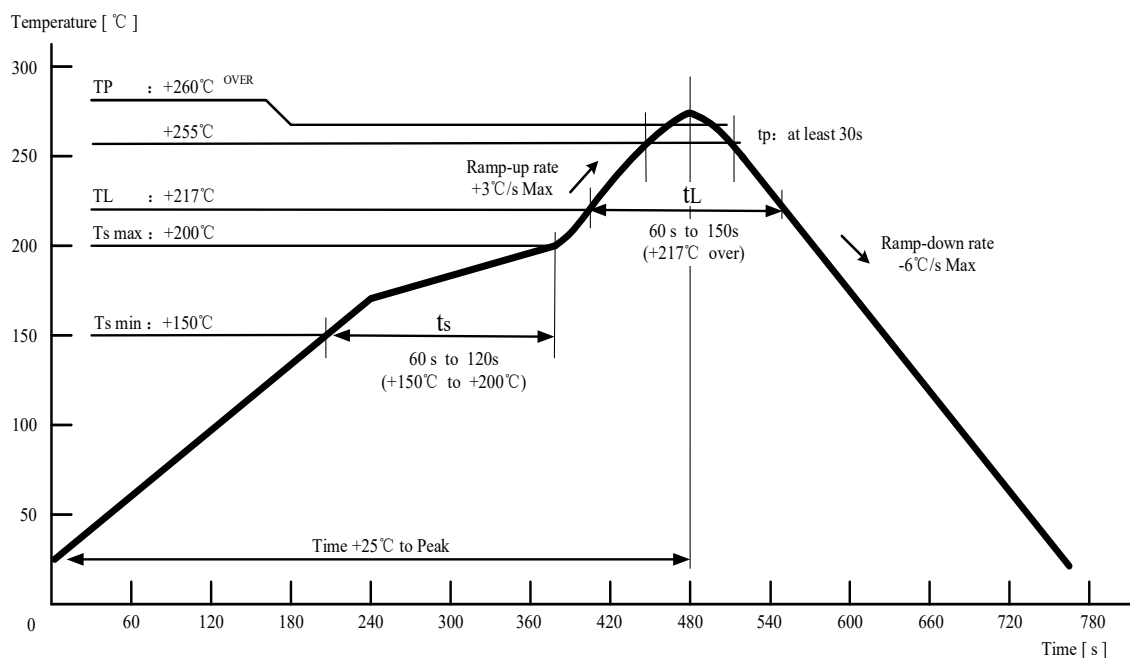
## MEASUREMENT CIRCUIT



## WAVEFORM CONDITIONS

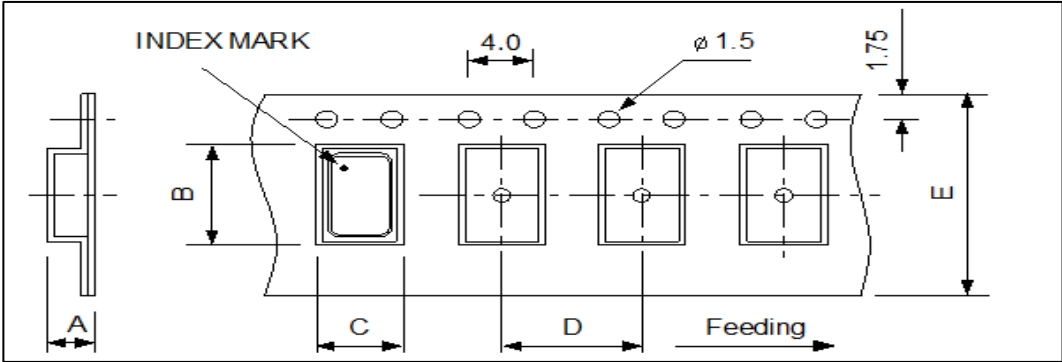


## REFLOW CONDITION

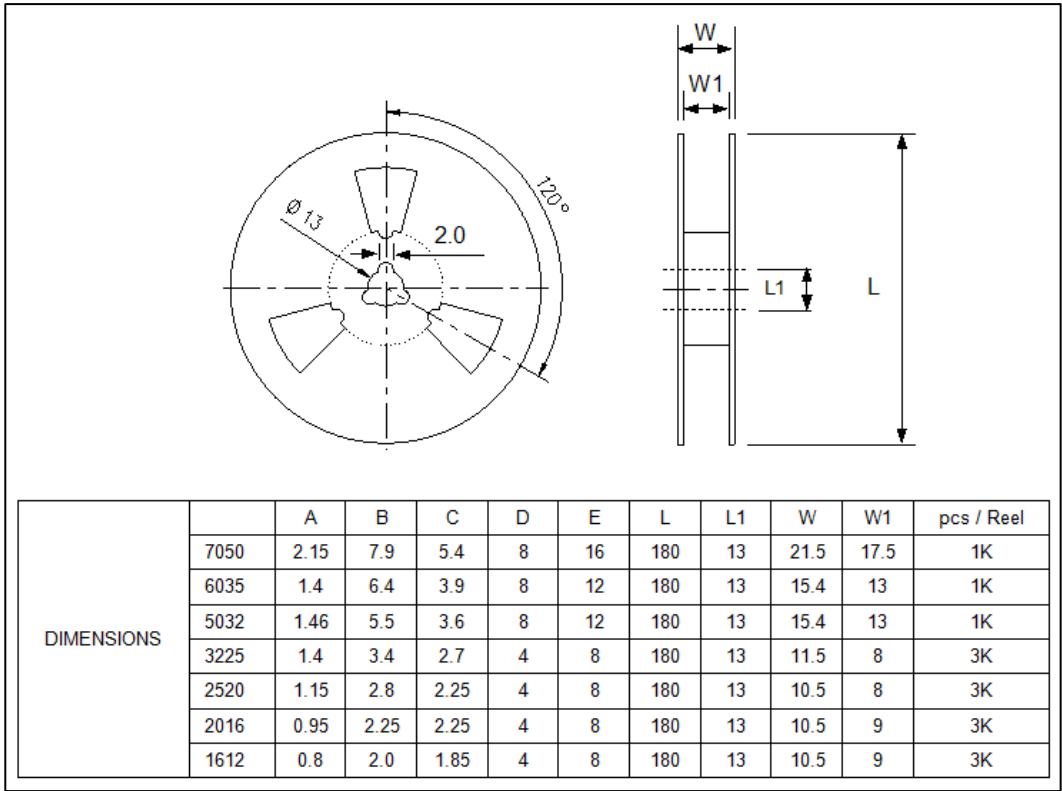


The reflow temperature profile may vary depending on the product model, specifications and frequency range. Refer to the individual product specifications for details

CARRIER TYPE



REEL



## RELIABILITY TEST SPECIFICATIONS

| Test item                                  | Equipment                              | Condition                                                                                     | Specification                  |
|--------------------------------------------|----------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------|
| 1.SOLDERABILITY TEST                       | SJK-REL001、RC-328A                     | TP:260℃ TsMax: 200℃ TsMin: 150℃<br>2 time<br>                                                 | MIL-STD-883E<br>Method 2003.7  |
| 2. HERMETICITY TEST                        | HELIOT-306S                            | Pressurized 0.4~0.5Mpa ethanol sealed tank for 10 minutes                                     | MIL-STD-883E<br>Method 1014.10 |
| 3. VIBRATION TEST                          | HG-V4、S&A 250B                         | Enable Crystal(10g) from 10-55-10Hz,X、Y、Z horizontal,1 Minute vibration/time, 1time/ 2 hours. | MIL-STD-883E<br>Method 2007.3  |
| 4. MECHANICAL SHOCK                        | HPC-200、S&A 250B                       | Enable Crystal 50G(490m/s <sup>2</sup> ) time=11 ms speed=3.4 m/s half sine wave oscillation  | JIS C6701                      |
| 5. DROP TEST                               | HARD BOARD.S&A250B                     | 75cm High,3 times on hard board                                                               | MIL-STD-202F<br>Method 213B    |
| 6. HIGH&LOW TEMP STORAGE TEST(Static test) | H-PTH-80CK & HM101-3ABN, S&A 350B/250B | High temperature: 125℃±2℃,1000hr; Low temperature:-40℃±3℃,1000hrs                             | MIL-STD883C,<br>METHOD 1011.8  |
| 7. TEMP & HUM CYCLING TEST                 | H-PTH-80CK CHAMBE, S&A 350B/250B       | Temperature:-10℃±2℃~65℃±2℃,Humidity:93±3%,1 cycle need 24 hrs. 5cycles.                       | MIL-STD-883E<br>Method 1005.8  |
| 8. HIGH TEM. & HUM.STORAGE TEST            | H-PTH-80CK CHAMBE, S&A350B/250B        | Temperature:85℃±2℃, Humidity:85+3,-2%,Store 96 hrs                                            | JIS C6701                      |
| 9. AGING TEST                              | H-PTH-80CK CHAMBE, S&A350B/250         | Temperature:85℃±2℃, Store 1000 hrs                                                            | JIS C5023                      |