

# 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:     | SMD3225 OSC 6PIN 80.000MHZ 3.3V - 40~85℃ LVDS                                                                                                                                       |
| P N/ SJK: | 3N80000G33DC                                                                                                                                                                        |
| 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 2025-5-10 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:        |     |     |                    |     |     |

# Crystal oscillator

## SMD LVDS Output 3.2×2.5×0.95mm 3N Series



### FEATURE

- Fundamental / 3rd overtone solution.
- 3.3V and 2.5V operation available.
- LVDS output, output frequencies 25 MHz to 200 MHz.
- Excellent low phase noise and jitter.
- Tri-State function available.
- Applications : Fibre Channel, Gigabit Ethernet, Serial ATA,
- Serial Attached SCSI, PCI-Express, SDH/SONET.
- RoHS Compliant / Pb Free.

### ELECTRICAL SPECIFICATIONS

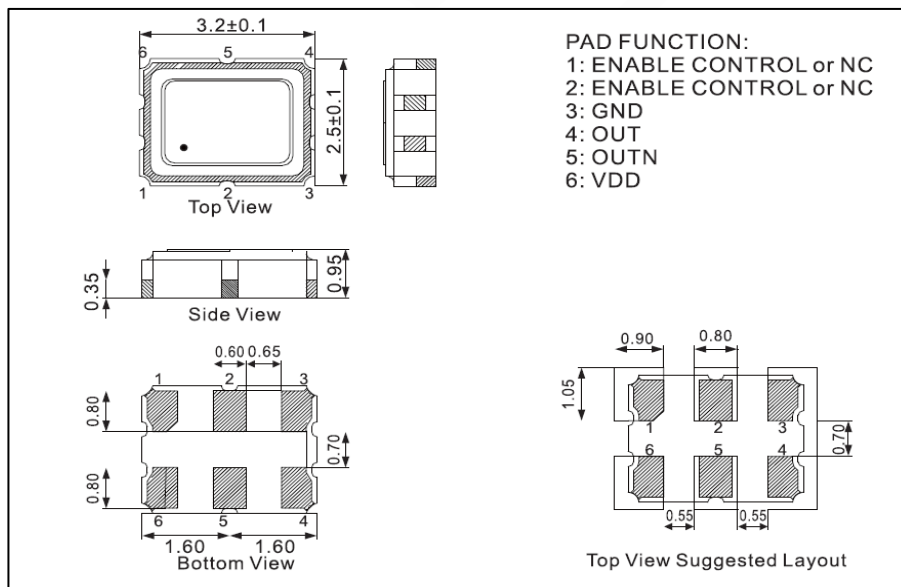
| Parmeters                                            | Condition\Model                   | 3N                         |
|------------------------------------------------------|-----------------------------------|----------------------------|
| Fan Out Type                                         |                                   | LVDS                       |
| Supply Voltage                                       |                                   | 3.3V±10%                   |
| Frequency                                            |                                   | 80.000MHz                  |
| Operating Temperature                                |                                   | -40°C to +85°C             |
| Current                                              |                                   | 60mA Typ.                  |
| Frequency Stability                                  | All Conditions                    | ±30ppm                     |
| Output Voltage<br>100±1Ω<br>(R1+R1 between OUT-OUTN) | Vol                               | 0.9V                       |
|                                                      | VoH                               | 1.6V                       |
| Rise/Fall Time                                       | 20%~80%                           | 0.4ns max                  |
| Load Capacitance                                     |                                   | 15pF                       |
| Duty Cycle                                           |                                   | 50±10%                     |
| Storage Temperature                                  |                                   | -55~+125°C                 |
| Start-upTime                                         |                                   | 10ms max                   |
| Aging                                                |                                   | ±3ppm (first year at 25°C) |
| Tri-State                                            | Output Active                     | 0.7VDD Min Pin 1 Tri-state |
|                                                      | Output in<br>High-Impedance state | 0.3VDD Max                 |
| Jitter                                               | 12kHz to 20MHz                    | 0.2ps                      |

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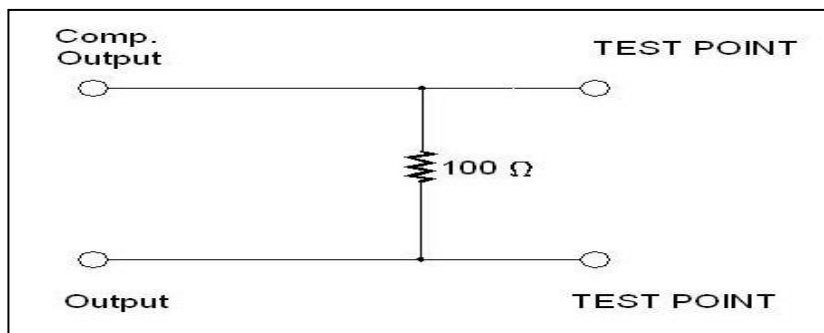
### DIMENSION (Unit: mm)



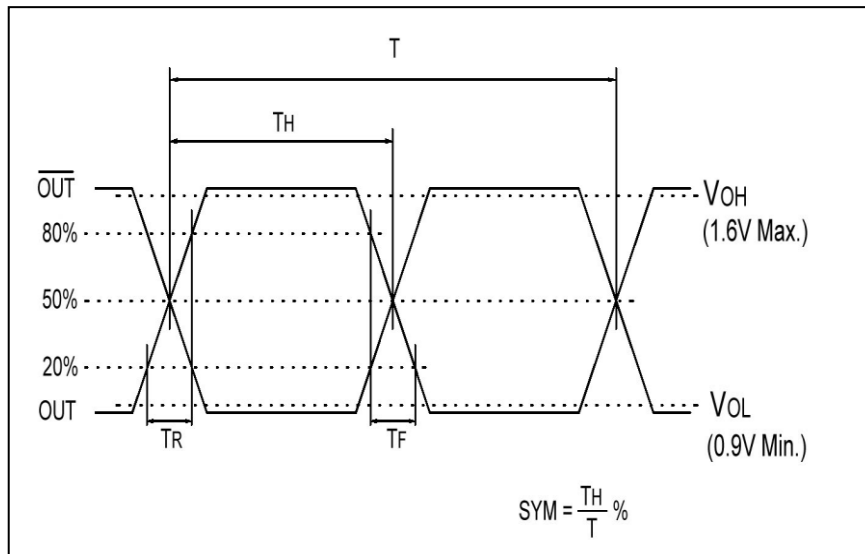
### MARK



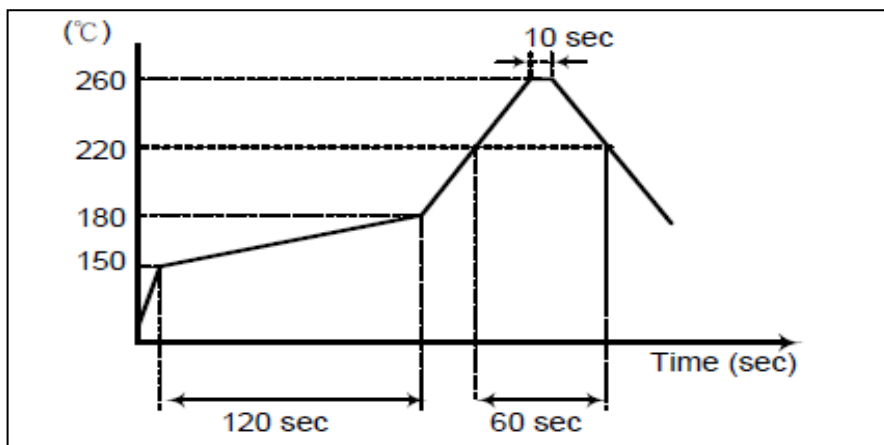
### MEASUREMENT CIRCUIT



## WAVEFORM CONDITIONS

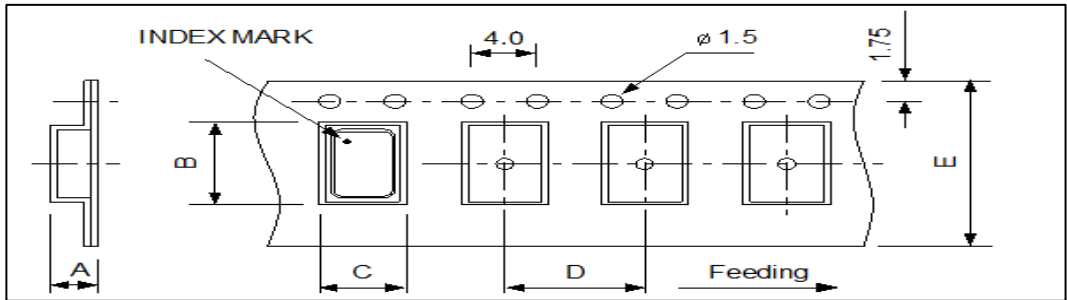


## REFLOW CONDITION

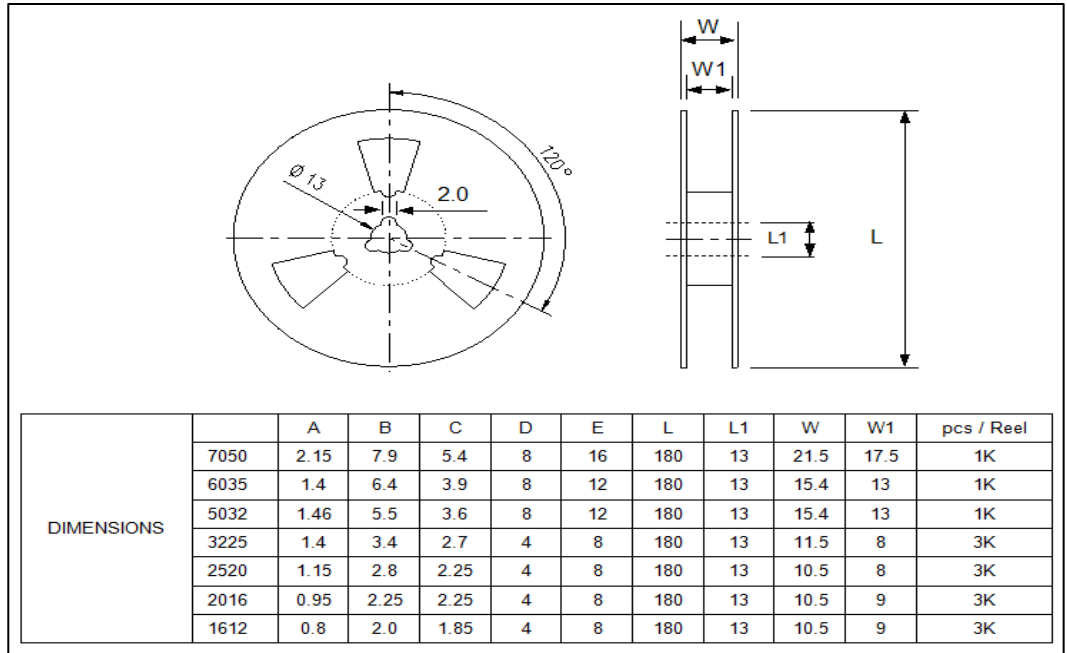


The reflow temperature profile may vary depending on the product model, specifications and frequency range. Refer to the individual product specifications for details

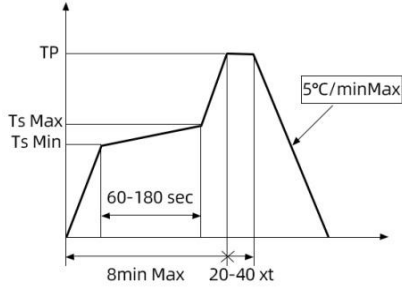
## CARRIER TYPE



## 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                      |