

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 6pin 200.000MHz 3.3V ±30PPM总频差 -40~85℃ LVDS |
| P N/ SJK: | 3N200000G33DC |
| 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 2025-7-29 初版 最小包装: 3000pcs/real |
| 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 | | | 批 示: <input type="checkbox"/> 接受 <input type="checkbox"/> 有条件接受 | | |
| 备注: | | | | | |

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.

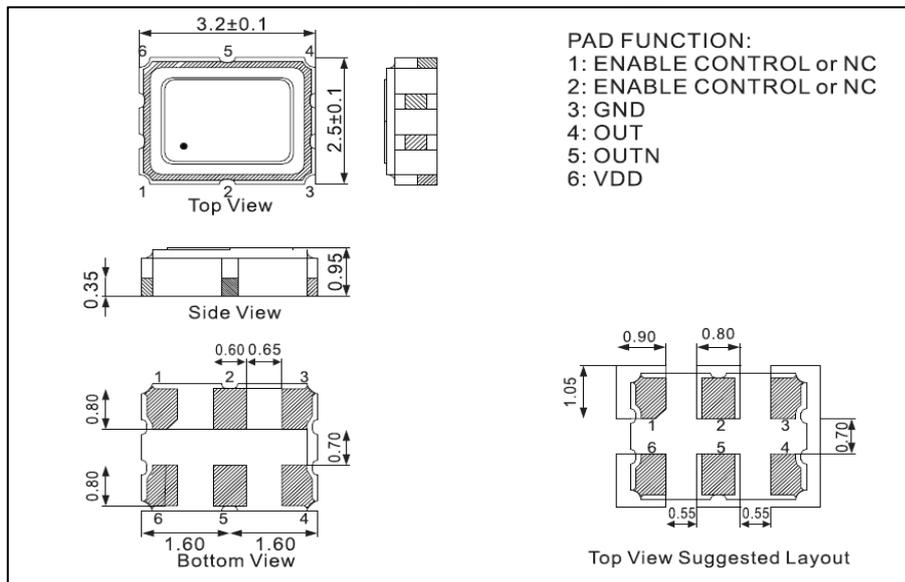
ELECTRICAL SPECIFICATIONS

| Parameters | Condition\Model | 3N |
|-----------------------|----------------------------------|----------------------------|
| Fan Out Type | | LVDS |
| Supply Voltage | | 3.3V±10% |
| Frequency | | 200.000MHz |
| Operating Temperature | | -40°C to +85°C |
| Current | | 20mA Typ. |
| Frequency Stability | AT 25°C | ±10ppm |
| | Over Operating Temperature range | ±20ppm |
| Output Voltage | Vol(Tpy) | 0.9V |
| | VoH(Tpy) | 1.6V |
| Rise/Fall Time | 20%~80% | 1ns max |
| Load Capacitance | | 15pF |
| Duty Cycle | | 50±10% |
| Storage Temperature | | -55~+125°C |
| Start-upTime | | 10ms max(15PF) |
| Output Load | | 100Ω |
| Aging | | ±3ppm (first year at 25°C) |
| Tri-State | Output Active | 0.7VDD Min Pin 1 Tri-state |
| | Output in High-Impedance state | 0.3VDD Max |

Crystal oscillator SMD LVDS Output 3.2×2.5×0.95mm 3N Series



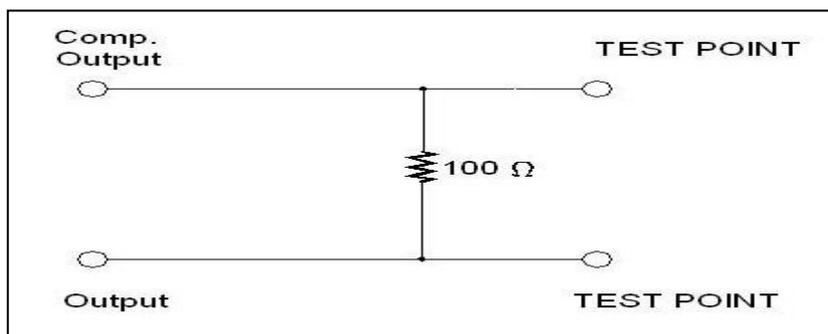
DIMENSION (Unit: mm)



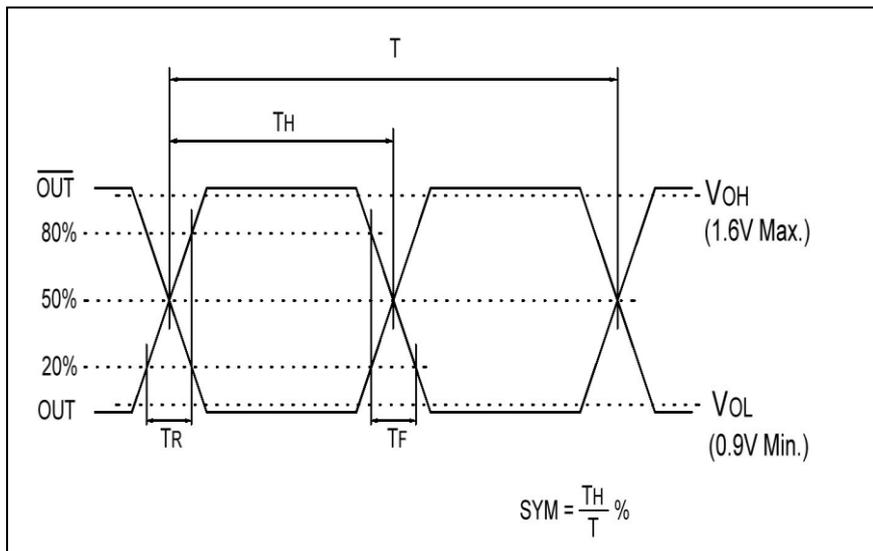
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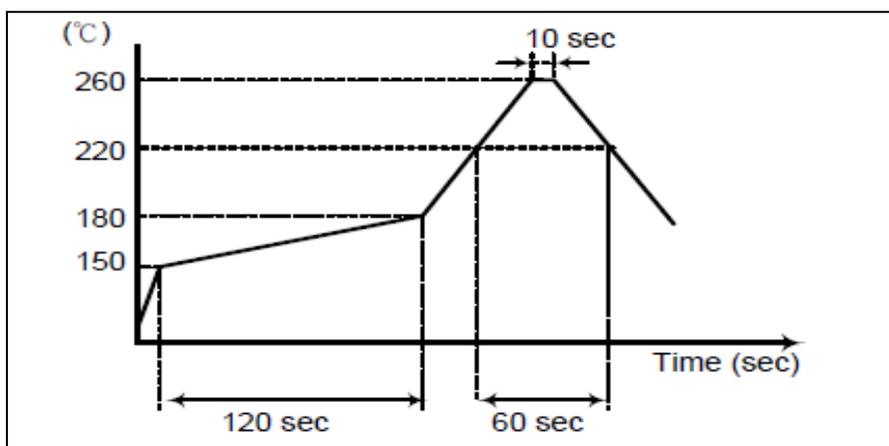
MEASUREMENT CIRCUIT



WAVEFORM CONDITIONS

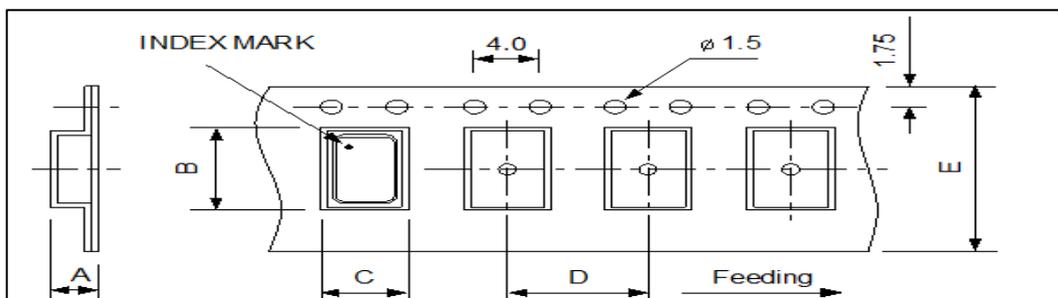


REFLOW CONDITION

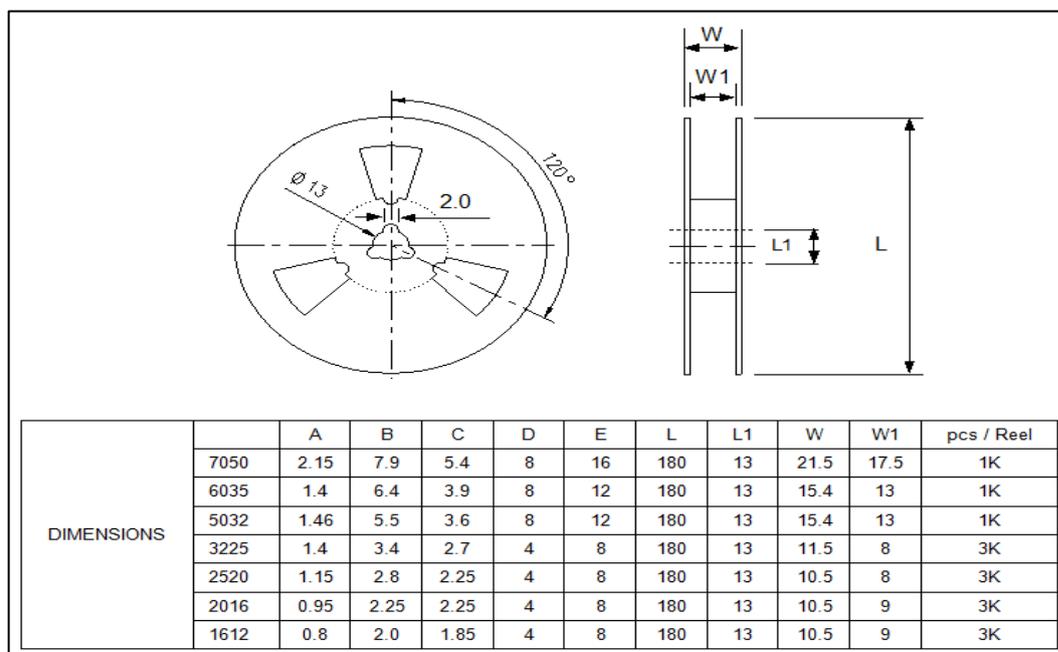


The reflow temperature profile may vary depending on the product model, specifications and frequency range. Refer to the individual product specifications for details

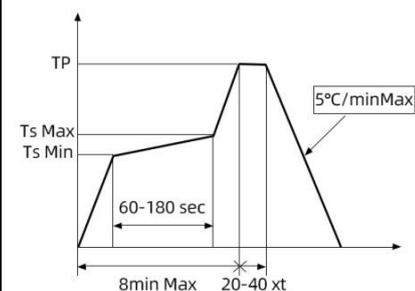
CARRIER TYPE



REEL



RELIABILITY TEST SPECIFICATIONS

| Test item | Equipment | Condition | Specification |
|--|--|---|--------------------------------|
| 1.SOLDERABILITY TEST | SJK-REL001、RC-328A | TP:260℃ TsMax: 200℃ TsMin: 150℃ 2 time  | MIL-STD-883E Method 2003.7 |
| 2. HERMETICITY TEST | HELIOT-306S | Pressurized 0.4~0.5Mpa ethanol sealed tank for 10 minutes | MIL-STD-883E 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 Method 2007.3 |
| 4. MECHANICAL SHOCK | HPC-200、 S&A 250B | Enable Crystal 50G(490m/s ²) 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 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, 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 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 |