

## 制 品 規 格 書

## SPECIFICATION

(版本號: Version: A/1)

|                     |         |                   |
|---------------------|---------|-------------------|
| CUSTOMER            | 【客戶名稱】: | K12590            |
| PRODUCT NAME        | 【產品名稱】: | Speaker           |
| CUSTOMER'S PART NO. | 【客戶型號】: |                   |
| XUANDA PART NO.     | 【本廠型號】: | XDEC-48Y04T23NJ19 |
| DESCRIPTION         | 【規 格】:  | 4 Ω 10W           |
| DATE                | 【日 期】:  | 2026. 05. 14      |

客戶承認 APPROVED

此承認書煩請確認簽字後回傳，謝謝！

Please confirm your signature and return this acknowledgement. Thank you!

## 深圳市轩达电子有限公司

SHENZHEN XUANDA ELECTRONICS CO.,LTD

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|                                                                                     |                                                                                     |                                                                                     |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 設 計                                                                                 | 審 核                                                                                 | 核 准                                                                                 | 公司印章                                                                                  |
| DESIGNED                                                                            | CHECKED                                                                             | APPROVED                                                                            | COMPANY SEAL                                                                          |
|  |  |  |  |

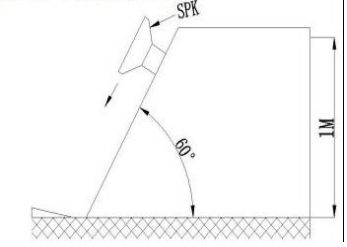
## REVISION HISTORY

## 修订履历表

[illegible]

|                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                                                                                           |                                          |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------|
| CUSTOMER'S PART NO<br>顧客型號                                                                                                                                                                                                                                                                                                                                                                                       |                                |                                                                                                           | OUR PART NO.<br>本廠型號                     | XDEC-48Y04T23NJ19 |
| 1. TEST CONDITION(测试条件)<br>UNLESS OTHERWISE SPECIFIED,THE STANDARD RANGE OF ATMOSPHEREIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS AREAS FOLLOWS (无特定要求时如下述测试条件):<br>5℃~35℃, 25%~85%RH, 860 HPA ~1060 HPA<br>IF THERE IS NO DOUBT ABOUT THE RESULTS ,MEASUREMENT SHALL BE MADE WITH IN THE FOLLOWING LIMITS(当判定有疑义の場合如下述测试条件): 20℃±2℃, 63%~67%RH, 860 HPA~1060HPA.<br>SPECIFICATION OF SPEAKER MODE (扬声器模式规格) |                                |                                                                                                           |                                          |                   |
| NO.<br>序號                                                                                                                                                                                                                                                                                                                                                                                                        | ITEM<br>項 目                    | SPECIFICATION<br>規 格                                                                                      |                                          | CONDITION<br>條 件  |
| 1-1                                                                                                                                                                                                                                                                                                                                                                                                              | DIMENSION<br>尺寸                | 48.5mm*48.5mm*32mm                                                                                        |                                          |                   |
| 1-2                                                                                                                                                                                                                                                                                                                                                                                                              | NOMINAL IMPEDANCE<br>標稱阻抗      | ACR: 4.0 Ω ±20%<br>DCR: 3.6 Ω ±10%                                                                        | AT 800 HZ 1.0V                           |                   |
| 1-3                                                                                                                                                                                                                                                                                                                                                                                                              | RATED POWER<br>額定功率            | 10 W                                                                                                      | AT 6.31 V                                |                   |
| 1-4                                                                                                                                                                                                                                                                                                                                                                                                              | MAX POWER<br>最大功率              | 12 W                                                                                                      | AT 6.93 V                                |                   |
| 1-5                                                                                                                                                                                                                                                                                                                                                                                                              | RESONANCE FREQUENCY<br>最低共振周波數 | 160HZ±20%                                                                                                 | AT 1.0V                                  |                   |
| 1-6                                                                                                                                                                                                                                                                                                                                                                                                              | OUTPUT S. P. L<br>靈 敏 度        | 85±3DB                                                                                                    | 0.5M/1W AT(300, 400, 500, 600Hz) AVERAGE |                   |
| 1-7                                                                                                                                                                                                                                                                                                                                                                                                              | FREQUENCY RANGE<br>有效頻寬        | F0 ~ 20KHZ                                                                                                | OUTPUT S. P. L -10DB                     |                   |
| 1-8                                                                                                                                                                                                                                                                                                                                                                                                              | DISTORTION<br>失 真 度            | 10 % MAX                                                                                                  | AT 800 HZ 0.5M/1W                        |                   |
| 1-9                                                                                                                                                                                                                                                                                                                                                                                                              | BUZZ&RATTLE<br>異 常 音           | ENTER 6.32 V SINE WAVE FROM 120 HZ TO 5 KHZ WITHOUT ABNORMAL SOUND<br>輸入 6.32 V 正弦波從 120 HZ到 5 KHZ 沒有異常聲音 |                                          |                   |
| 1-10                                                                                                                                                                                                                                                                                                                                                                                                             | POLARITY<br>極 性                | DIAPHRAGM SHALL MOVE FORWARD<br>端子正極通入電流，振膜振動方向向前                                                         |                                          |                   |

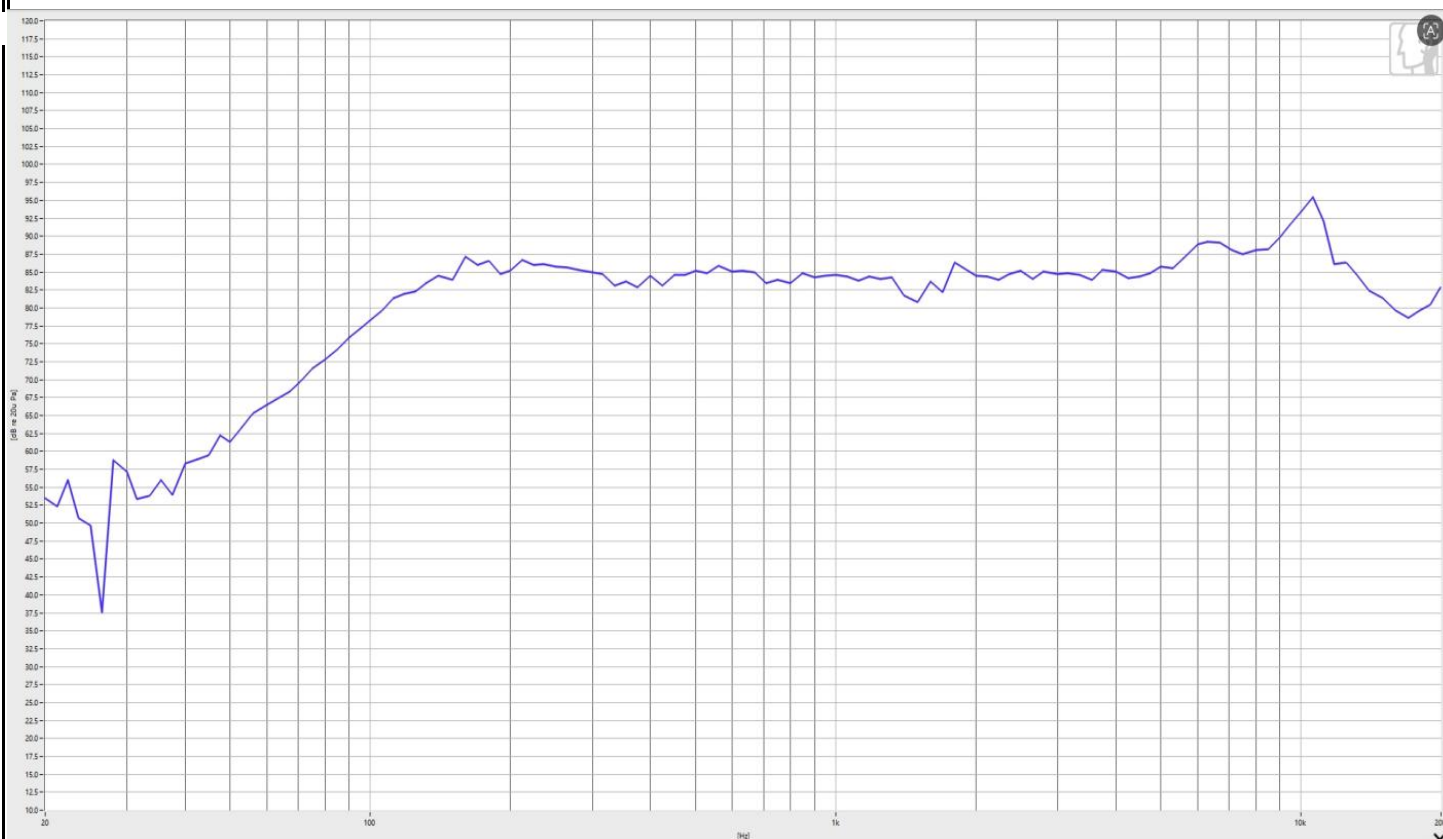
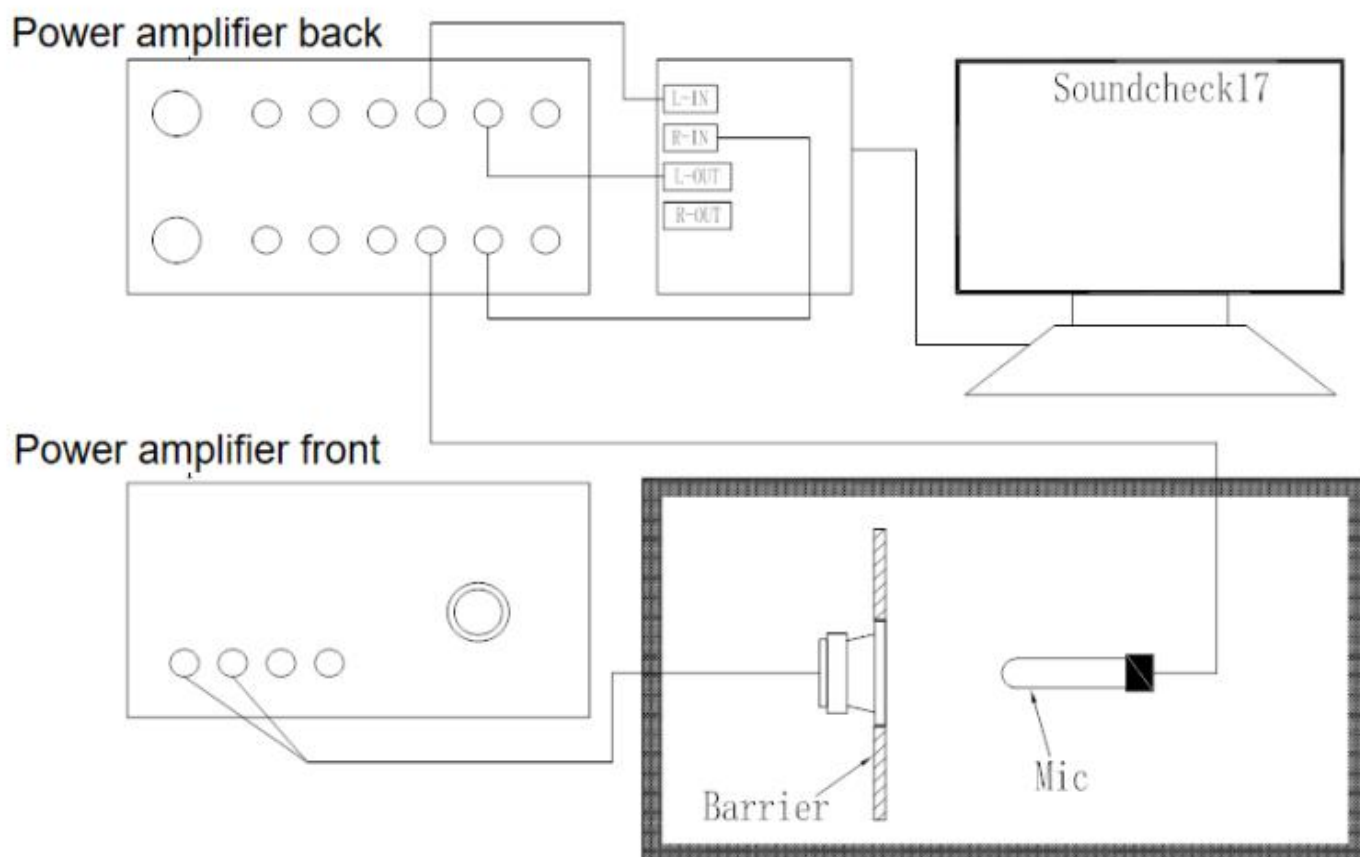
2. ENVIRONMENTAL CHARACTERISTICS  
信赖性试验

|              |                               |                                                                                                                                                                                                                               |
|--------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-1          | LOAD TEST<br>連續負荷測試           | MUST BE NORMAL AFTER LOAD TEST: WHITE NOISE, 10W, 110HZ- 20 KHZ 96 HOURS<br>負荷試驗後必須正常: 白噪音, 10 W, 110 HZ- 20 KHZ 96小時                                                                                                         |
| 2-2          | HIGH TEMP TEST<br>耐熱試驗        | AFTER HAVING BEEN IN A TEST CHAMBER FOR 24 HOURS AT THE CONDITION OF $+60^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 20~25%R.H AND KEEP 2 HOURS<br>( $+60^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 20~25%R.H, 24小時試驗常溫2小時後, 無異常的不良) |
| 2-3          | COLD TEMP TEST<br>耐寒試驗        | AFTER HAVING BEEN IN A TEST CHAMBER FOR 24 HOURS AT THE CONDITION OF $-25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ AND KEEP 2 HOURS<br>( $-25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , 24小時試驗常溫2小時後, 無異常的不良)                    |
| 2-4          | HUMIDITY TEST<br>耐濕試驗         | AFTER HAVING BEEN IN A TEST CHAMBER FOR 24 HOURS AT THE CONDITION OF $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 90~95%R.H AND KEEP 4 HOURS<br>$+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 90~95%R.H, 24小時試驗常溫4小時後, 無異常的不良)   |
| 2-5          | SLIDE TEST<br>滑落試驗            | THE SPEAKER SHALL BE SLIDED 6 TIMES AS SHOWN THE FIGURE, CLAUSE 1-9 SHALL BE SATISFIED<br>(如右圖示6次滑落滿足1-9項異常音試驗)<br>                       |
| 2-6          | WELD<br>焊接條件                  | TERMINAL WELD: $350^{\circ}\text{C} \leq 3-5\text{SEC} * 2\text{BIT}$ (端子焊接不超過3-5秒)                                                                                                                                           |
| 2-7          | OPERATING TEMPERATURE<br>工作溫度 | $-25^{\circ}\text{C}$ TO $+60^{\circ}\text{C}$                                                                                                                                                                                |
| 2-8          | STORE TEMP<br>儲存溫度            | $-30^{\circ}\text{C}$ TO $+70^{\circ}\text{C}$                                                                                                                                                                                |
| REMARK<br>备注 |                               |                                                                                                                                                                                                                               |

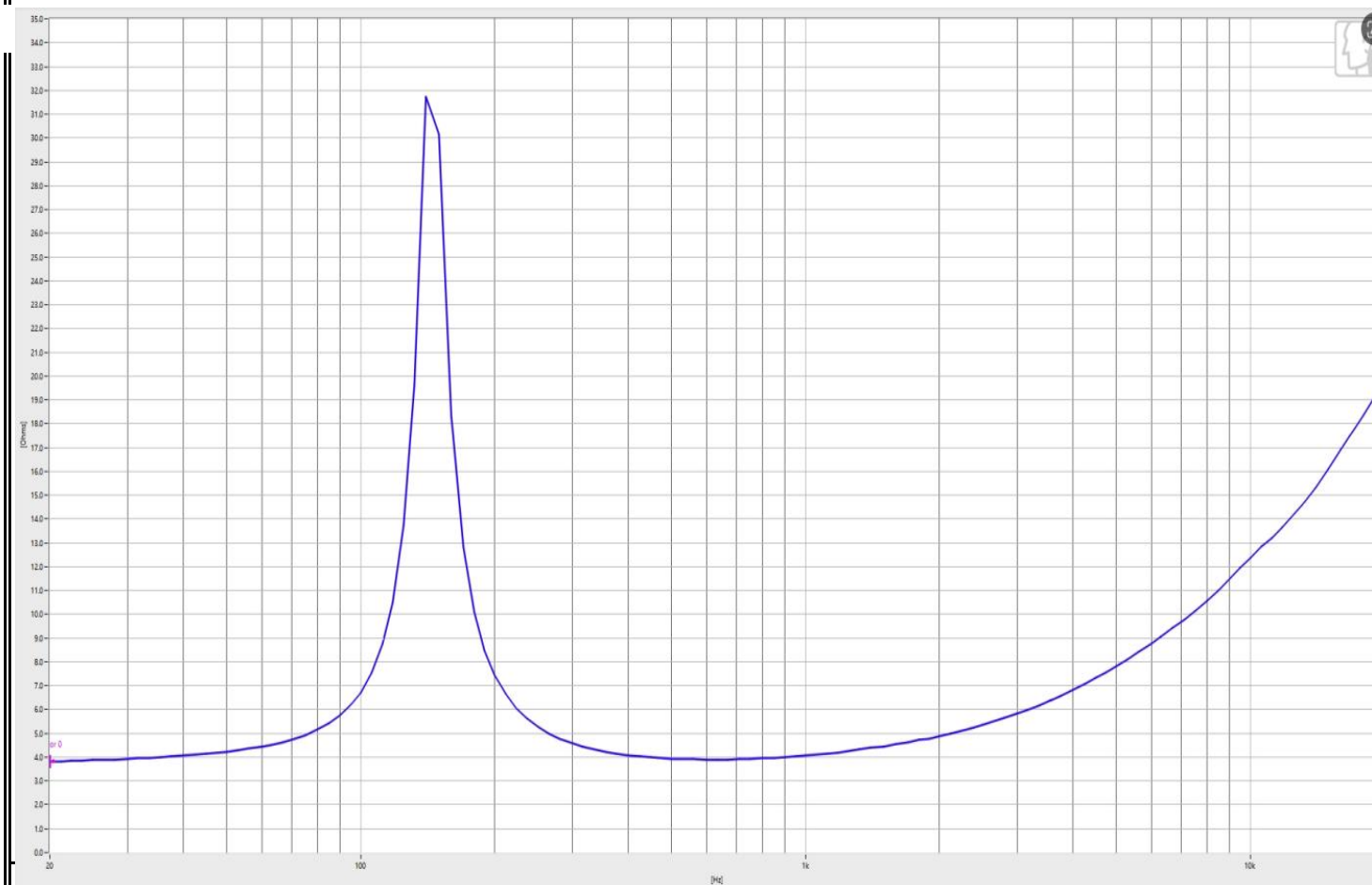
### 3. FREQUENCY RESPONSE (周波数特性)

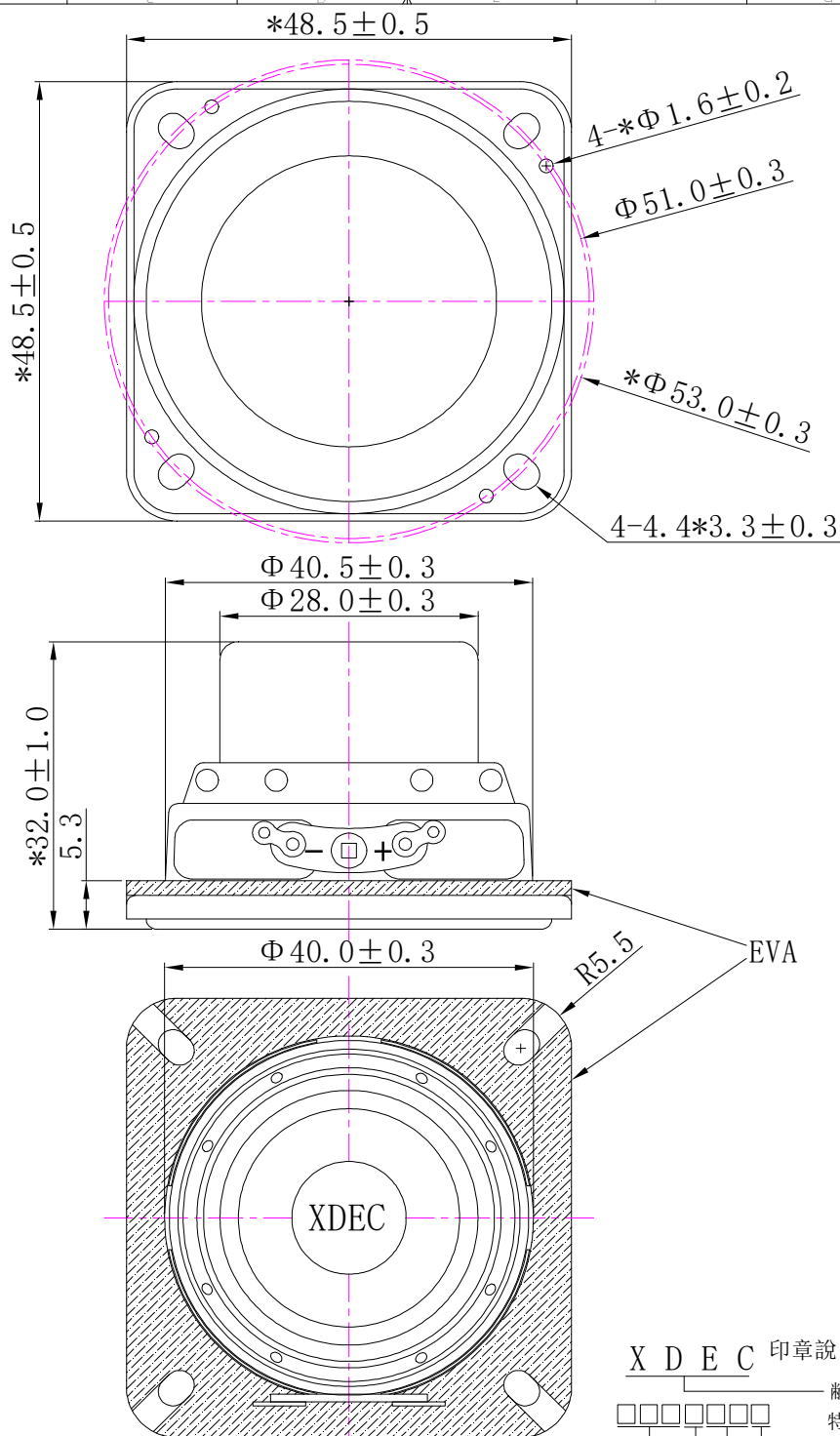
#### 3-1. SPL (灵敏度)

. SPL MEASUREMENT CIRCUIT 频响测试线路



### 3-2. I.M.P (阻抗)

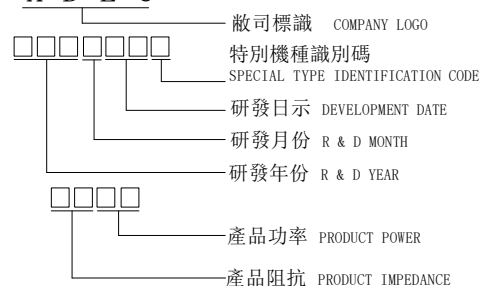




技术要求 (REMARK):

- 帶\*為重點檢驗尺寸。  
TAKE \* AS THE KEY INSPECTION DIMENSION.
- 未標注的公差見公差參考。  
SEE TOLERANCE REFERENCE FOR UNMARKED TOLERANCES.
- 產品印章因機種不同略有差異，具體以實樣為準。  
PRODUCT SEALS DUE TO DIFFERENT TYPES OF SLIGHTLY DIFFERENT, SPECIFIC SAMPLES SHALL PREVAIL

X D E C 印章說明 (STAMP INSTRUCTION):



|     |                  |              |            |                  |       |                                                    |                 |                   |                |                 |                |                 |
|-----|------------------|--------------|------------|------------------|-------|----------------------------------------------------|-----------------|-------------------|----------------|-----------------|----------------|-----------------|
| E   |                  |              |            | 180-315          | ±1.2  | 品 名<br>TITLE                                       | 機種名稱<br>PART NO | XDEC-48Y04T23NJ19 |                |                 | 比例<br>SCALE    | 1: 1            |
| D   |                  |              |            | 80-180           | ±0.8  | 外形圖                                                | 日 期<br>DATE     | 2026. 05. 14      | 版 本<br>EDITION | A               | 單位<br>UNIT     | mm              |
| C   |                  |              |            | 30-80            | ±0.4  |                                                    | 角法<br>3RD       |                   |                |                 |                |                 |
| B   |                  |              |            | 6-30             | ±0.15 | 深圳市軒達電子有限公司<br>SHENZHEN XUANDA ELECTRONIC CO., LTD |                 |                   |                | 設 計<br>DESIGNED | 審 核<br>CHECKED | 核 准<br>APPROVED |
| A   | 最 初 版            | 2026. 05. 14 | 孙 平        | 0-6              | ±0.1  |                                                    |                 |                   |                |                 |                |                 |
| SYM | 變 更<br>REVISIONS | 日 期<br>DATE  | 姓名<br>NAME | 公 差<br>TOLERANCE |       |                                                    |                 |                   |                |                 |                |                 |