



承 认 书

SPECIFICATION

文件编号: DGKD/JS-ST-090

版 次: A/0

CUSTOMER NAME 客户名稱: _____

CUSTOMER PARTS 客户編號: _____ 1030126

DESCRIPTION 產品系列: _____ PHONE JACK

KWAN DA MODEL NO 型號: _____ ST-166A (G)

KWAN DA PARTS NO 料號: _____ 40202166A001G

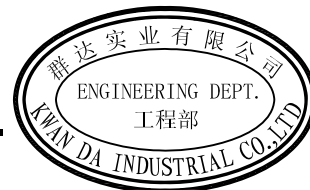
CUSTOMER MODEL NO 客户型號: _____

CUSTOMER PARTS NO 客户料號: _____

| | |
|--------------------------------------|---------------------------------------|
| CUSTOMER APPROVED 客户承認 | |
| <input type="checkbox"/> APPROVED 接受 | <input type="checkbox"/> REJECTED 不接受 |
| CHECKED BY 審核: | APPROVED BY 承認: |
| DATE 日期: | DATE 日期: |

| DRAWN BY 制 訂 | CHECKED BY 核 對 | APPROVED BY 審 批 | DESIGN DEPARTMENT 設計單位 | RoHS PRODUCT RoHS 產品 |
|------------------|-------------------|--------------------|--|---|
| 陳鎮銘 | 侯美萍 | 周麗瓊 |  |  |
| DATE: 2011-05-17 | DATE: 2011-05-17 | DATE: 2011-05-17 | | |

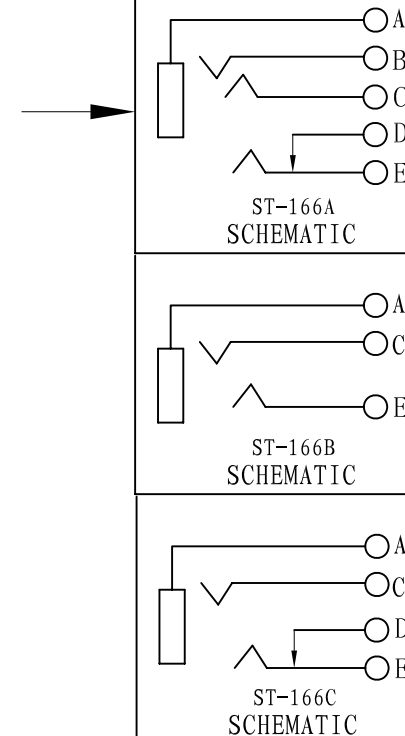
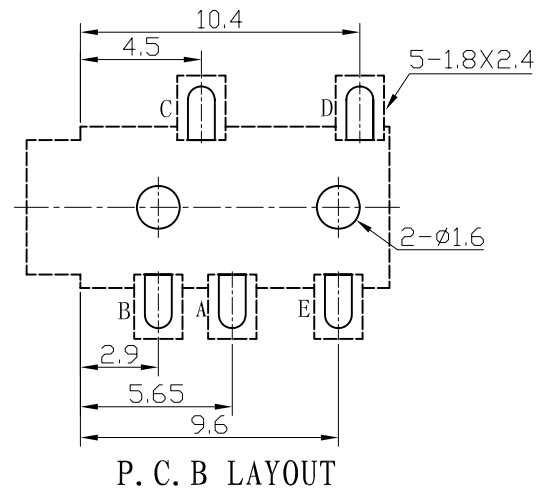
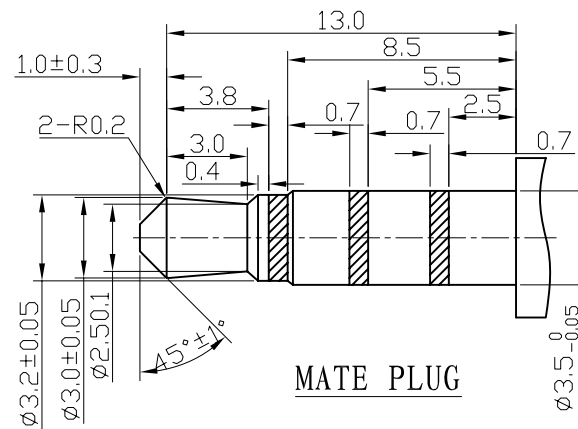
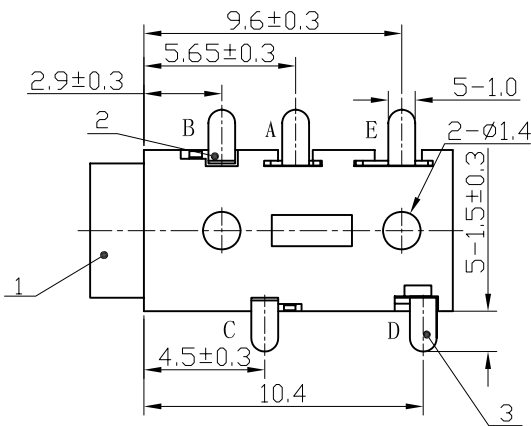
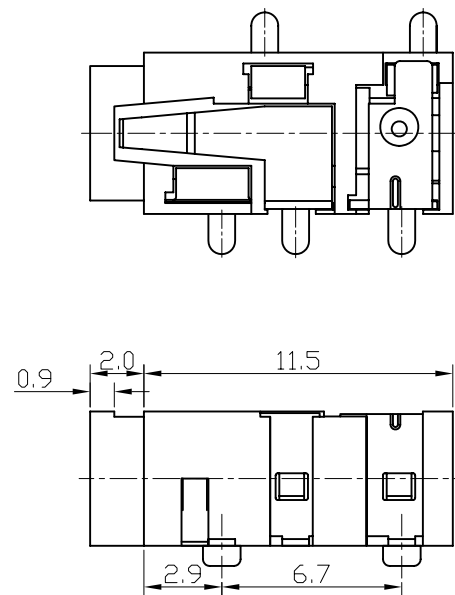
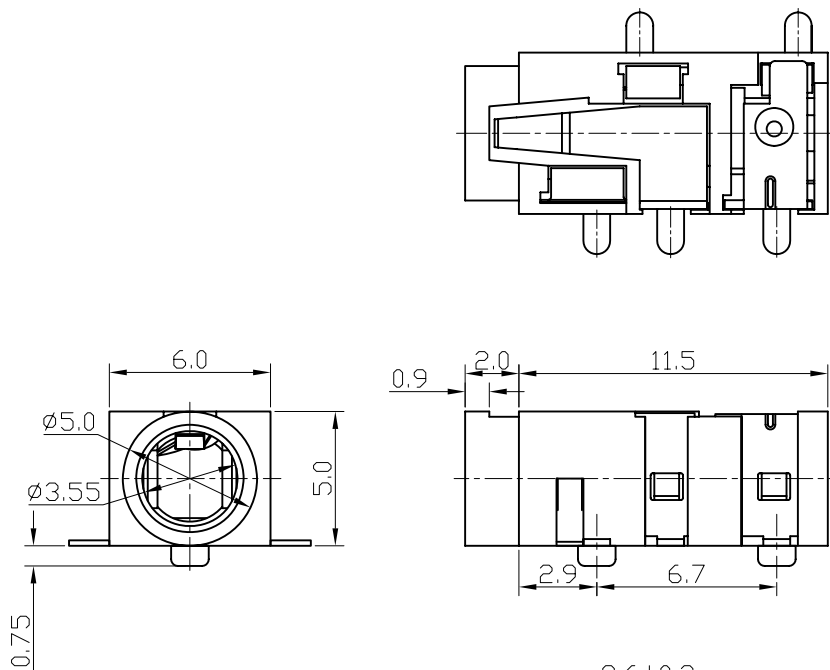
群達實業有限公司
KWAN DA INDUSTRIAL CO., LTD.



廣東省東莞市東城周屋工業區龍華路

LONG HUA RD.,ZHOU WU INDUSTRIAL DISTRICT,DONG CHENG,
DONG GUAN CITY, GUANG DONG PROVINCE,CHINA.

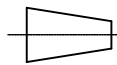
TEL: 0769-22252343 22252346 FAX: 0769-22267156



KWAN DA INDUSTRIAL CO., LTD.

TITLE : PHONE JACK

MODEL : ST-166 (G) (W162)



| | | | | | | |
|---------------|----|-------|-----|------|------------|---|
| UNIT : MM | | DWN. | 陈镇铭 | DATE | 2011-05-17 | TOLERANCE ≤1.5mm ±0.1 > 1.5mm ±0.2 >=10mm ±0.3 |
| SCALE : 3 : 1 | | CHK'D | 侯美萍 | DATE | 2011-05-17 | |
| VERSION | 01 | APPD. | 周丽琼 | DATE | 2011-05-17 | |

TOLERANCE
 $\leq 1.5\text{mm} \pm 0.1$
 $> 1.5\text{mm} \pm 0.2$
 $\geq 10\text{mm} \pm 0.3$

ANGLE TOL
 $\pm 2^\circ$

| | | | | |
|-----|------------------|-------------|------|-----------|
| 3 | TERMINAL D | BRASS STRIP | 1 | Ag PLATED |
| 2 | TERMINAL A B C E | PBS STRIP | 4 | Ag PLATED |
| 1 | HOUSING | NYLON | 1 | BLACK |
| NO. | PART NAME | MATERIAL | QTY. | FINISHING |



SPECIFICATION

承認書

KWAN DA INDUSTRIAL CO.,LTD.

群达实业有限公司

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|---------------------------------------|-------------------------------|---|-----|-------|--|---------------|
| 文件編號 | | DGKD/JS-ST-090 | 版 本 | A / 0 | 頁 碼 | 共 3 頁，第 1 頁 |
| DESCRIPTION 產品系列：PHONE JACK | | | | | DRAWN BY | 制訂：陳 鎮 銘 |
| MODEL NO 產品型號：ST-166A (G) | | | | | DATE | 日期：2011-05-17 |
| | | | | | CHECKED BY | 核對：侯 美 萍 |
| | | | | | DATE | 日期：2011-05-17 |
| 1. RATING 額定值：1A 12V DC | | | | | APPROVED BY | 審批：周 麗 瓊 |
| | | | | | DATE | 日期：2011-05-17 |
| 2. ELECTRICAL CHARACTERISTICS 電氣性能規格： | | | | | | |
| ITEM 項目 | | TEST CONDITIONS 測試條件 | | | PERFORMANCE 性能 | |
| 2. 1 | CONTACT RESISTANCE 接觸電阻 | MEASURED AT SMALL CURRENT (100 mA OR LESS) 1000HZ 在微小電流（100 mA）以下測試 | | | 100mΩ MAX. 100 毫歐以下。 | |
| 2. 2 | INSULATION RESISTANCE 絕緣電阻 | APPLY A VOLTAGE OF 500V DC SHALL BE APPLIED FOR 1 MIN AFTER WHICH MEASUREMENT BE MADE： （1）BETWEEN CONDUCTORS NOT TO BE CONTACT （2）BETWEEN INDIVIDUAL TERMINALS AND FRAME 輸入 500V DC 電壓 1 分鐘，按以下接觸方法測試： （1）不相接觸的排腳之間 （2）插座体與排腳之間 （3）插头插入时不相接触的排脚之间 | | | 100MΩ MIN. 100 兆歐以上。 | |
| 2. 3 | DIELECTRIC STRENGTH 耐電壓 | AC 500V rms（50~60HZ）FOR 1 MIN TRIP CURRENT：0. 5mA （1）BETWEEN INDIVIDUAL TERMINALS AND FRAME （2）BETWEEN CONDUCTORS NOT TO BE CONTACT 輸入 AC 500V（50~60HZ）電壓，1 分鐘感應電流為 0. 5mA，按以下接觸方法測試： （1）不相接觸的排腳之間 （2）插座体與排腳之間 （3）插头插入时不相接触的排脚之间 | | | WITHOUT DAMAGE TO PARTS ARCING OR BREAKDOWN ETC. 沒有絕緣破壞等異常。 | |
| 3. MECHANICAL CHARACTERISTICS 機械性能規格： | | | | | | |
| ITEM 項目 | | TEST CONDITIONS 測試條件 | | | PERFORMANCE 性能 | |
| 3. 1 | CONNECTION FORCE 插入力度 | MEASUREMENT SHALL BE MADE AFTER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TINES. 依據標準的 PLUG GAUGE 做 3 次拔插後測定. | | | 0. 3~3Kgf | |
| | DISCONNECTION FORCE 拔出力度 | MEASUREMENT SHALL BE MADE AFTER CONNECTING AND DISCONNECTING USING STANDARD PLUG GAUGE 3 TINES. 依据标准的 PLUG GAUGE 做 3 次拔插后測定. | | | 0. 3~3Kgf | |




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|-------------------------------------|--|--|----------------------|--|----------------|--------------|
| 文件編號 | | DGKD/JS-ST-090 | 版 本 | A / 0 | 頁 碼 | 共 3 頁, 第 2 頁 |
| ITEM 項目 | | | TEST CONDITIONS 測試條件 | | PERFORMANCE 性能 | |
| 3. 2 | TERMINAL STRENGTH 端子強度 | A STATIC LOAD OF 300gf SHALL BE APPLIED TO THE TERMINAL FOR 15 SEC. IN ANY DIRECTION . 在插腳前端任意一個方向加 300gf 力度測試, 時間為 15 秒。 | | ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED WITHOUT DAMAGE OR EXCESSIVE LOOSENESS OF TERMINALS. 在插腳中沒有裂開、鬆動異常, 滿足於機械、電器性能。 | | |
| 4. ENDURANCE CHARACTERISTICS (耐久性): | | | | | | |
| ITEM 專案 | | | TEST CONDITIONS 測試條件 | | PERFORMANCE 性能 | |
| 4. 1 | MECHANICAL-LIFE TEST 机械寿命 | JACK SHALL BE SUBJECTED TO 5,000 CYCLES AT A SPEED OF 25~30 PER MINUTE WITHOUT LOAD. 插座在無負荷的條件下以每分鐘 25~30 回的速度進行 5,000 次的測試。 | | 1. CONTACT RESISTANCE: $\leq 200m\Omega$ 2. INSULATION RESISTANCE: $\geq 50M\Omega$ 3. INSERTION FORCE: <u>0.2~2.5</u> Kgf EXTRACTION FORCE: <u>0.2~2.5</u> Kgf 4. THE EXTERNAL APPEARANCE JUST LIKE OFTEN CHANGES ,AND CAN PROCEED THE NORMAL CONVERSION ACTION 1. 接觸電阻: ≤ 200 毫欧 2. 絕緣電阻: ≥ 50 兆欧 3. 插入力度: <u>0.2~2.5</u> Kgf 拔出力度: <u>0.2~2.5</u> Kgf 4. 产品外观无异常, 鉚合部分應牢固, 緊固部分應無鬆動。 | | |
| 4. 2 | SOLDERABILITY TEST 可焊性試驗 | THE TOP OF THE TERMINALS SHALL BE DIPPED 2mm IN THE SOLDER BATH OF $230\pm 5^{\circ}C$ FOR 3 ± 0.5 SECONDS. 端子頂部被浸入錫焊池中 2mm 深, 溫度為 $230\pm 5^{\circ}C$, 時間為 3 ± 0.5 秒。 | | THE AREA OF SOLDERABILITY SHOULD BE OVER 75%. 焊接面積要有 75%以上。 | | |
| 4. 3 | RESISTANCE TO SOLDERING HEAT TEST 耐焊性試驗 | SOLDER BATH METHOD: SOLDER TEMPERATURE $245\pm 5^{\circ}C$ IMMERSION TIME 3 ± 0.5 SEC IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD THICKNESS OF PRINTED WIRING BOARD 1.6mm DIMENSIONS OF COMPONENT HOLES IN THE PRINTED WIRING BOARD SHALL BEING ACCORDANCE WITH THOSE SPECIFIED IN THIS SPECIFICATION. 焊爐焊接的時間溫度控制在 $245\pm 5^{\circ}C$, 過爐時間為 3 ± 0.5 秒, 於 (基板) 厚度 1.6mm. | | WITHOUT DEFORMATION OF CASE OR EXCESSIVE LOOSENESS OF TEMINALS. ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED. 本體無變形, 能滿足於機械、電器性能。 | | |
| 4. 4 | COLD TEST 耐冷試驗 | THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $-25\pm 3^{\circ}C$ FOR 48 HOURS. AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH MEASURE MENT SHALL BE MADE. 開關放置在溫度 $-25\pm 3^{\circ}C$ 中 48 小時後, 再放置常溫常濕中 1 小時來進行測試。 | | THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外觀無異常, 滿足於機械、電器性能。 | | |
| 4. 5 | HEAT TEST 耐熱試驗 | THE SWITCH SHALL BE STORED AT A TEMPERATURE OF $70\pm 2^{\circ}C$ FOR 48 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITIONS FOR 1 HOUR AFTER WHICH MEASURMENT SHALL BE MADE. 開關放置在溫度 $70\pm 2^{\circ}C$ 中測試 48 小時後, 再放置正常室溫中 1 小時來測定。 | | THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外觀無異常, 滿足於機械、電器性能。 | | |
| 4. 6 | HUMIDITY TEST 潮濕試驗 | THE JACK SHALL BE STORED AT A TEMPERATURE OF $40\pm 2^{\circ}C$ AND A HUMIDITY OF 90% TO 95% FOR 96 HOURS. THEN THE SWITCH SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 HOUR PROCEDURES BE MADE. 放置 $40\pm 2^{\circ}C$ 的相對濕度為 90%~95%環境中 96 小時後, 再將樣板放在正常環境 1 小時後進行測試。 | | THERE SHALL BE NO DEFORMATION OR CRACKS IN MOLDED PART. 外觀無異常, 滿足於機械、電氣性能。 | | |

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|--|---|--|-------|--------------------------------------|-------------|
|  SPECIFICATION 承認書 | | KWAN DA INDUSTRIAL CO.,LTD. 群 达 实 业 有 限 公 司 | | | |
| 文件編號 | DGKD/JS-ST-090 | 版 本 | A / 0 | 頁 碼 | 共 3 頁，第 3 頁 |
| ITEM 項目 | | TEST CONDITIONS 測試條件 | | PERFORMANCE 性能 | |
| 4.7 | STANDARD ATMOSPHERIC CONDITIONS 測試標準狀態 | UNLESS OTHERWISE SPECIFIED.THE STANDARD RANGE OF ATMOSPHERIC CONDITIONS FOR MAKING MEASUREMENTS AND TESTS ARE AS FOLLOWS: (1) AMBIENT TEMPERATURE: 5℃ TO 35℃ (2) RELATIVE HUMIDITY: 45% TO 85% (3) AIR PRESSURE: 86Kpa TO 106Kpa 在沒有指定的情況下測試溫度、濕度、氣壓如下: (1) 溫度為 5~35℃ (2) 濕度為 45%~85% (3) 氣壓為 86Kpa~106Kpa | | | |
| 4.8 | PRACTICAL TEMPERATURE RANGE 使用溫度範圍 | -20℃~+70℃ 在-20℃~+70℃溫度內使用 | | | |
| 5.0 | CONSERVATION TEMPERATURE 保存溫度 | THE SWITCHES' STORE CONDITIONS REQUIREMENT AMD STORE TIME LIMIT: 1. THE SWITCHES PACKED IN THE CARTON BOARD BOXES AMD WOODEN BOXES CAN BE TRANSPORTED BY ANY KINDS OF VEHICLES,BUT NEED AVOIDING BEING STRICEN BY RAIN,SNOW AMD MECHANISM. 2. THE SWITCHES SHOULD BE KEPT UNDER THE BELOW CONDITIONS: THE TEMPERATURE IS KEPT WITHIN THE LIMITS OF SUBZERO THEN DEGREE CENTIGRADE TO FORTY DEGREE CENTIGRADE;THE RELATIVE HUMIDITY SHOULD BE NOT MORE THAN EIGHTY PERCENT AMD THERE IS NO ACID ,ALKALI,SULFIDE ,OZONE,ALKALINE AIR AND ANY OTHER POISONOUS GAS AROUND THE STOREHOUSE. 開關保存條件要求和期限： 1、 裝有產品的紙箱或木箱允許用任何方法運輸，唯需避 免雨雪直接淋襲和機械撞擊。 2、 產品應存放在環境為-10~+40℃，相對濕度不大於 80%，周圍空氣不應有酸、堿、硫化物、臭氧、氨氣及 其它對產品有害氣體的倉庫內。 | | | |
| 6.0 | CHINA OF ORIGIN 原產國 | MADE IN DONG GUAN CHINA. 中國东莞製造. | | | |
| 7.0 | ROHS COMPLIANT 符合 RoHS 指令 | ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT, THE USE OF PROHIBITED SUDSTANCE IS LIMITED TO: (1)Cd <100ppm; (2)Pb. Hg. Cr (VI). PBB AND PBDE <1000ppm. (3)INCLUDE THE RANGE OF THAT RoHS RELEASE. 电子电气设备中限制使用某种特定有害物质, 禁用物质允 许最大含量值的 MCV: (1)Cd 为<100ppm; (2)Pb. Hg. Cr (VI). PBB AND PBDE 为<1000ppm. (3)包括 RoHS 最新豁免的范围. | | MEET THE ABOVE REQUIREMENT. 符合要求. | |



東莞群達實業有限公司
DONGGUAN KWAN DA INDUSTRIAL CO.,LTD.

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TEL: 0769-22252343 22252346 22298676 FAX: 0769-22267156

客戶編號：1030126

客戶型號：

客戶料號：

NO:Y000263

環保產品 SGS 檢測報告對照表

| 序號 NO | 產品型號 MODEL NO | 零部件名稱 PART NAME | 零部件材料 MATERIAL | 表面狀態 FINISHING | SGS 報告編號 SGS REPORT NO | 檢測數據 DATUM (ppm) | | | | | | 檢測日期 DATE | 檢測結果 RESULT | 備註 REMARK |
|----------|------------------|---------------------|-------------------|-------------------|---------------------------|---------------------|-------|-------|----------|-------|-------|--------------|----------------|--------------|
| | | | | | | Pb | Cd | Hg | Cr (VI) | PBBs | PBDE | | | |
| 1 | ST-166A(G) | TERMINAL D | BRASS STRIP | Ag PLATED | CANEC1005124103 | 11 | N. D. | N. D. | Negative | / | / | 20101214 | PASSED | |
| | | TERMINAL A B C E | PBS STRIP | Ag PLATED | CANEC1004590704 | 20 | N. D. | N. D. | Negative | / | / | 20101109 | PASSED | |
| | | HOUSING | NYLON | BLACK | CANEC1004590707 | 14 | N. D. | N. D. | N. D. | N. D. | N. D. | 20101109 | PASSED | |

N. D. =Not Detected

Date: 2011 年 05 月 17 日

編制: 陳鎮銘

審核: 侯美萍

批准: 周麗瓊

日期: 2011-05-17

日期: 2011-05-17

日期: 2011-05-17