

## 数规格说明 Specifications:

### 1.电气特性 Electrical:

额定电压(Rated voltage): 20V DC

额定电流(Rated current): 7.0A

接触电阻(Contact resistance): 30mΩ MAX

绝缘电阻(Insulation resistance): 100MΩ Min

耐电压(Withstand Voltage): 500V AC

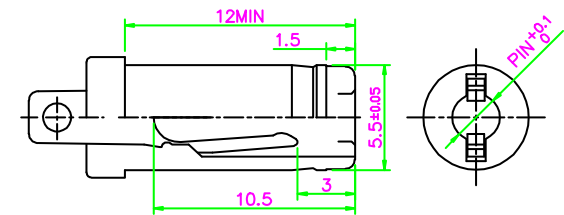
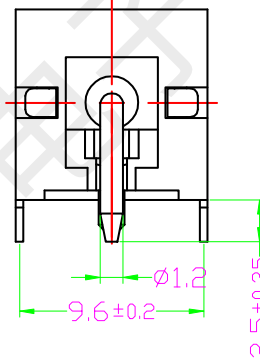
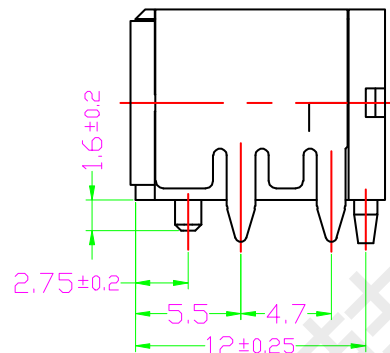
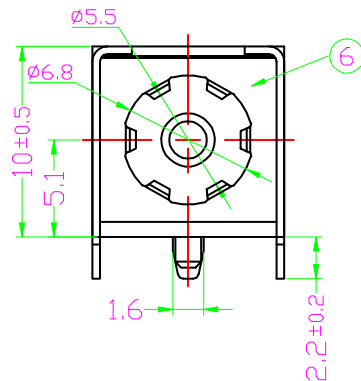
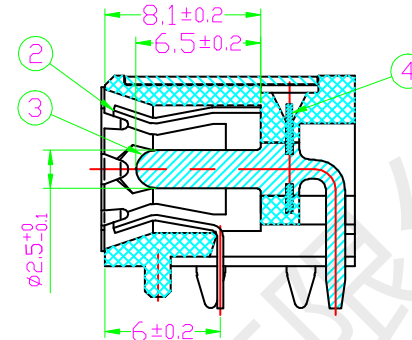
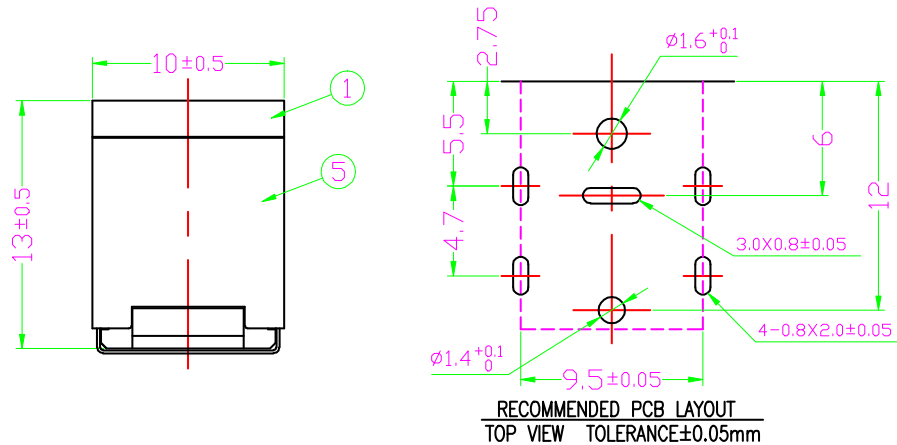
### 2.机械性能 Mechanical:

插入力(Mate force): 3-30N

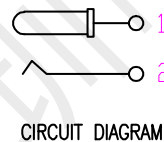
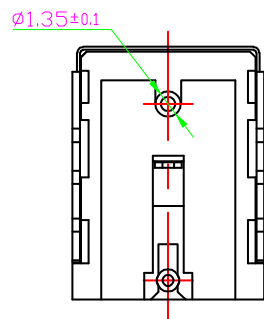
拔出力(Unmate force): 3-30N

插拔次数(Durability): 5000 Cycles.

### 3.温度范围(Temperature Range): -25℃~+70℃



RECOMMENDED PLUG



CIRCUIT DIAGRAM

|     |           |      |               |             |
|-----|-----------|------|---------------|-------------|
| 6   | GROUND    | 1    | SUS301 t=0.15 | ---         |
| 5   | SHELL     | 1    | BRASS t=0.4   | Ni PLATED   |
| 4   | TERMINAL  | 1    | SUS301 t=0.3  | ---         |
| 3   | PIN       | 1    | BRASS H59     | Au PLATED   |
| 2   | SPRING    | 1    | C5191 t=0.3   | CuSn PLATED |
| 1   | HOUSING   | 1    | PA9T UL94 V-0 | BLACK       |
| NO. | PART NAME | QT'Y | MATERIAL      | REMARK      |

PART NO.  
HX DC007B-2.5-J

DRAWING NO.  
DC-007B-6P-φ2.5

APPROVED BY  
罗小春  
2022/08/15

CHECKED BY  
张伟  
2022/08/15

DRAWN BY  
黄彬  
2022/08/15

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1 OF 1  
SCALE  
1:1

REV.  
1



深圳市韩下电子有限公司

TITLE

DC POWER JACK

| TOLERANCE        |       |         |       |
|------------------|-------|---------|-------|
| X.               | ±0.50 | X.XXX   | ±0.15 |
| X.X              | ±0.35 |         |       |
| X.XX             | ±0.25 | Angular | ±2°   |
|                  |       | UNIT    |       |
|                  |       | mm      |       |
| DWG TYPE.        |       |         |       |
| Customer Drawing |       |         |       |

| ECN NO | REVISION RECORD | DRAW | DATE |
|--------|-----------------|------|------|
| 1      | 2               | 3    | 4    |



深圳市韩下电子有限公司

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## 承 认 书

### SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

DC座

规格型号 Part No:

HX DC007B-2.5-J

贵公司承认印 Approval signatures

| 料 号/Part No. | 签 章/Signatures |
|--------------|----------------|
|              |                |

日期 Date:

|             |     |                                                                                      |
|-------------|-----|--------------------------------------------------------------------------------------|
| 拟制/Drawn    | 黄彬  |  |
| 审核/Check    | 张伟  |                                                                                      |
| 批准/Approved | 罗小春 |                                                                                      |



# 深圳市韩下电子有限公司

|                                                                                               |                                                                                                                                                                  |                                                                                    |
|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 品名 (NAME) : DC座                                                                               |                                                                                                                                                                  |                                                                                    |
| 型号 (MODEL): HX DC007B-2.5-J                                                                   |                                                                                                                                                                  |                                                                                    |
| 1.溫度5~35℃, 湿度45~85%標準狀態下測試。<br>In normal fettle to test.Temperature 5~35℃ and humidity 45~85% |                                                                                                                                                                  |                                                                                    |
| 2.溫度 -25~70℃環保內使用。<br>In entironment of remperature -25~70℃                                   |                                                                                                                                                                  |                                                                                    |
| ITEM 專案                                                                                       | TEST CONDITION 測試條件                                                                                                                                              | SPECICFICAION 規格                                                                   |
| 3.ELECTRONICAL RESISTAN 電氣性能                                                                  |                                                                                                                                                                  |                                                                                    |
| 3.1 CONTACT RESISANCE<br>接觸阻抗                                                                 | Being measured at 1KHZsmall current connact resistance meter.在1KHZ小電流下測量。                                                                                        | 0.03欧姆以下                                                                           |
| 3.2 INSULATION RESISTANCE<br>絕緣阻抗                                                             | Measurements shall be made following application of DC500V potenrial across terminals and across terminals and frame for 1minute.在端子之間和端子與殼之間加DC500V條件下，持續1分鐘測量。 | 100M min<br>100兆歐以上。                                                               |
| 3.3 WITHSTAND VOLTAGE<br>耐電壓                                                                  | AC500V(50HZ or 60HZ) shall be applied across terminals and across terminals and frame for one minute.在端子之間和端子與殼之間加AC500V條件下，持續1分鐘測量。                             | There shall be no breakdown<br>無擊穿現象。                                              |
| 4.MECHANICAL CHARACTERISTICS 機械性能                                                             |                                                                                                                                                                  |                                                                                    |
| 4.1 INSERION AND WITHDRAW<br>插拔力                                                              | Being measure at across spring piece and across matching plug for ergometer.<br>用測力計在插頭與彈片之間進行測試                                                                 | Insertion and extraction force 3-30N,<br>插拔力3-30N                                  |
| 4.2 TERMINAL STRENGTH<br>端子強度                                                                 | A static force of 500gf being applied in one directionon the top of terminal for 1 minute.一個500克之靜負荷施加於端子頂部的一個方向持續1分鐘。                                           | There shall be no sign of damage mechanical and electriclly.<br>無任何迹象顯示機械及電器性能之損壞。 |



## 5.DURABILTY 耐 久 性

|     |                                |                                                                                                                                                                                                          |                                                                                                                                                                 |
|-----|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5.1 | <b>SOLDERING TEST</b><br>可焊性試驗 | The top of terminals shall be dipped 2mm in the loder bath at a temperature of $230\pm5^{\circ}\text{C}$ for 3sec.<br>端子頂部被浸入焊池2mm深，溫度 $230\pm5^{\circ}\text{C}$ 時間3秒                                    | A new un form coating of shall cover above 75% of the surface being immersed. 浸入的部分75%以上表面將被錫覆蓋。                                                                |
| 5.2 | <b>LIFE TEST</b><br>壽命試驗       | 3000 cycles of operation at rate of 20-30 cycles per minture with unloading.<br>無負載條件下，每分鐘20—30次的速度操作5000次。                                                                                              | (1) Contact resistance. $40\text{m}\Omega$ max 接觸阻抗40毫歐以下<br>(2) Drive fore 30 inital value<br>動作力變化範圍初始值30<br>(3) ITEM專案—3.2<br>(4) ITEM專案—3.3<br>(5) INEM—4.2 |
| 5.3 | <b>HEAT TEST</b><br>耐熱試驗       | $80\pm2^{\circ}\text{C}$ for 48 hours after test keep in normal condition for 30minutes.<br>在 $80\pm2^{\circ}\text{C}$ 環境中放48小時，再放在正常環境中30分鐘後進行測試。                                                       | (1) Contact resistance $50\text{m}\Omega$ max. 接觸電阻50毫歐以下                                                                                                       |
| 5.4 | <b>HUMIDITY TEST</b><br>耐濕試驗   | The condition of temperature $40\pm2^{\circ}\text{C}$ and humidity 90-95% for 48 hours after test keep in normal condition for 30 min. 在 $40\pm2^{\circ}\text{C}$ 90—95 % Rh 環境中放48小時，再放在正常環境中30分鐘後進行測試。 | (2) Insulation resistance $100\text{M}\Omega$ min 絕緣電阻100M歐以上<br>(3) There shall be no sign of damage mechanically and electrically. 無任何<br>迹象顯示機械及電器性能之損壞。     |
| 5.5 | <b>COLD TEST</b><br>耐冷試驗       | At $-30\pm2^{\circ}\text{C}$ for 48 hours, after test keep in normal condition for 30 min. 在 $-30\pm2^{\circ}\text{C}$ 環境中放48小時，再置於正常環境中30分鐘後進行測試。                                                       |                                                                                                                                                                 |