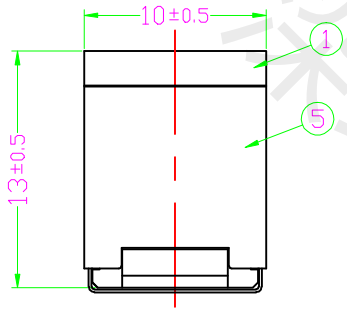
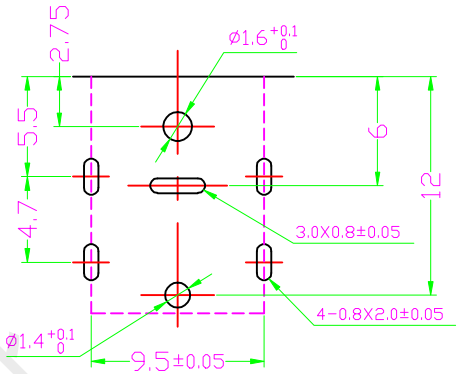
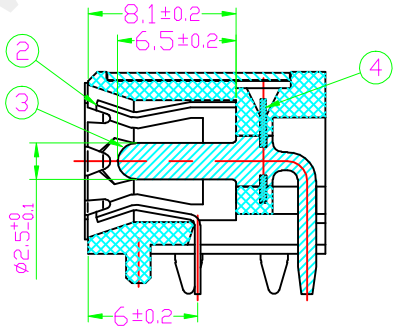
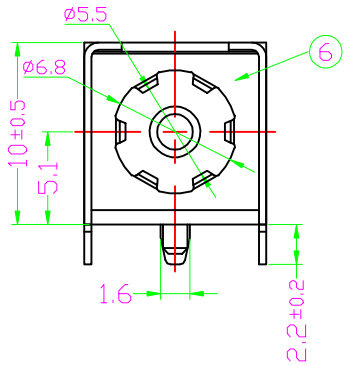


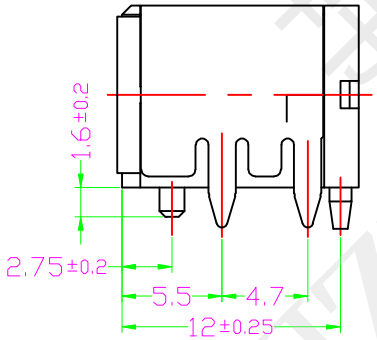


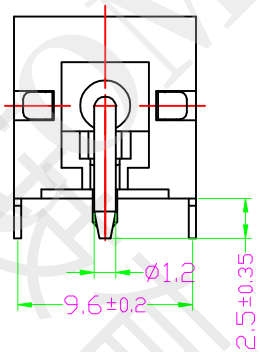
RECOMMENDED PCB LAYOUT
TOP VIEW TOLERANCE±0.05mm

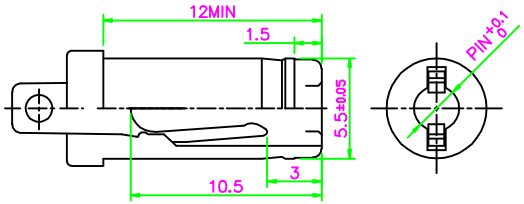
ELECTRICAL
RATING:DC 20V 7A:
CONTACT RESISTANCE:30mΩ MAX
INSULATION RESISTANCE: 100 MΩ MIN.
DIELECTRIC WITHSTAND VOLTAGE: 500V AC
INSERTION FORCE:3-30N.
DURABILITY TEST: 5,000 CYCLES.
TEMPERATRUE RANGE:-30 °C TO +70°C
MATERIALS & PLATING: SEE THE TABLE BELOW.



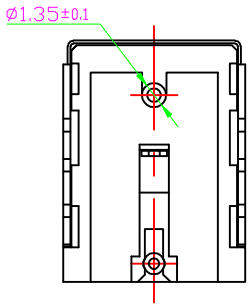


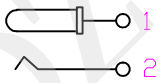






RECOMMENDED PLUG





CIRCUIT DIAGRAM

NO.	PART NAME	QT'Y	MATERIAL	REMARK
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

REV.	ECN NO	REVISION RECORD	DRAW	DATE

TOLERANCE

X. ±0.50 X.XXX ±0.15
X.X ±0.35
X.XX ±0.25 Angular ±2°

UNIT mm

DWG TYPE. Customer Drawing

PART NO. DC007B-2.5-J

DRAWING NO. DC-007B-6P-ϕ2.5

深圳市首韩科技有限公司

TITLE. DC POWER JACK

APPROVED BY	CHECKED BY	DRAWN BY	PAGE	REV.
罗孝金	钟华华	李春风	1 OF 1	1
2022/08/15	2022/08/15	2022/08/15	SCALE 1:1	

深圳市首韩科技有限公司
SHENZHEN SHOUHAN TECHNOLOGYCO.,LTD
Tel: 0755-27597601 Fax: 0755-27597491

承 认 书

SPECIFICATION FOR APPROVAL

产 品 编 码
Material code: _____

产品名称 Project： **DC座**

规格型号 Part No： **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	李春风	深圳市首韩科技有限公司 工程专用章
审核/Check	钟华华	
批准/Approved	罗孝金	

深圳市首韩科技有限公司

品名（NAME）： DC座	
型号（MODEL）: DC007B-2.5-J	
1.溫度5~35℃，湿度45~85%標準狀態下測試。 In normal fettle to test.Temperature 5~35℃ and humidity 45~85%	
2.溫度-30~70℃環保內使用。 In entironment of remperature -30~70℃	

ITEM 專案	TEST CONDITION 測試條件	SPECICFICAION 規格
3.ELECTRONICAL RESISTAN 電氣性能		
3.1 CONTACT RESISANCE 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 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 100兆歐以上。
3.3 WITHSTAND VOLTAGE 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 無擊穿現象。
4.MECHANICAL CHARACTERISTICS 機 械 性 能		
4.1 INSERION AND WITHDRAW 插拔力	Being measure at across spring piece and across matching plug for ergometer. 用測力計在插頭與彈片之間進行測試	Insertion and extraction force 3-30N, 插拔力3-30N
4.2 TERMINAL STRENGTH 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 electrically. 無任何迹象顯示機械及電器性能之損壞。

深圳市首韩科技有限公司

5.DURABILTY 耐 久 性

5.1	SOLDERING TEST 可焊性試驗	The top of terminals shall be dipped 2mm in the loder bath at a temperature of 230±5℃ for 3sec. 端子頂部被浸入焊池2mm深，溫度230±5℃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	LIFE TEST 壽命試驗	3000 cycles of operation at rate of 20-30 cycles per minture with unloading. 無負載條件下，每分鐘20—30次的速度操作5000次。	（1） Contactresistance.40mΩ max 接觸阻抗40毫歐以下 （2）Drive fore 30 inital value 動作力變化範圍初始值30 （3）ITEM專案—3.2 （4）ITEM專案—3.3 （5）INEM—4.2
5.3	HEAT TEST 耐熱試驗	80±2℃ for 48 hours after test keep in normal condition for 30minutes. 在80±2℃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 50mΩ max.接触电阻50毫欧以下
5.4	HUMIDITY TEST 耐濕試驗	The condition of temperature 40±2-℃ and humidity 90-95%for 48 hours after test keep in normal condition for 30 min.在40±2-℃ 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 100MΩ min绝缘电阻100M欧以上 （3）There shall be no sign of damage mechanically and electrically.無任何迹象顯示機械及電器性能之損壞。
5.5	COLD TEST 耐冷試驗	At—30±2-℃ for 48 hours,after test keep in normal condition for 30 min.在—30±2-℃環境中放48小時，再置於正常環境中30分鐘後進行測試。	