

CAD GENERATED DRAWING. DON'T CHANGE BY HAND.

REV. ECRN. NO. AFFY.

This technical drawing illustrates the dimensions and assembly details for a USB connector. The top part shows a side view of the connector with a note indicating the total length is 5.40 Min. Below this, a cross-sectional view shows internal components with dimensions of 3.80 and 1.60. A callout labeled '防水母座' (Waterproof Female Seat) points to the seating area. The bottom part is a front view of the connector body, featuring a central pin labeled 'P' and two mounting holes labeled 'O'. Dimensions shown are 4.75, 8.60±0.15, 0.85±0.15, and 6.60±0.20. Part numbers '1#' and '5#' are also indicated.

公头插不到底。

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The technical drawing shows a rectangular component with the following dimensions:

- Overall width: 6.60
- Overall height: 3.00
- Bottom thickness: 1.50
- Top thickness: 0.30
- Left side height: 3.90 ± 0.15
- Left side thickness: 1.00 ± 0.10
- Left side top height: 4.75 ± 0.15
- Left side top thickness: 1.10 ± 0.10
- Right side height: 3.65 ± 0.15
- Right side thickness: 1.35 ± 0.10
- Right side top height: 4.25 ± 0.15
- Right side top thickness: 0.90 ± 0.10
- Bottom left corner radius: R0.60 ± 0.14
- Bottom right corner radius: R0.60 ± 0.14
- Bottom center slot width: 3.90 ± 0.15
- Bottom center slot length: 2.46 ± 0.10
- Bottom center slot depth: 5.65 ± 0.15

The technical drawing illustrates a mechanical assembly with the following dimensions and tolerances:

- Top horizontal dimension: 1.80 ± 0.10
- Vertical dimension between top and middle sections: 0.38 ± 0.10
- Vertical dimension between middle and bottom sections: 0.25 ± 0.10
- Bottom horizontal dimension: 0.45
- Right side vertical dimension: 1.2 ± 0.10
- Right side horizontal dimension: 2.60 ± 0.10

A technical line drawing of a double-acting cylinder. It features a rectangular body with two circular ports on the left side. A vertical rod extends from the right side. The cylinder is shown in a partially extended position.

注：防水圈是圆形截面，直径为0.7mm的硅胶圈
防水圈挤压量，由0.7mm挤压到0.3mm ~ 0.4mm，防

SPECIFICATIONS:	CHARACTERISTICS:
1. ELECTRICAL	2. A(CPIN1&2).0.54(PIN2&3&4); 1.2. CONTACT RESISTANCE: 30 mΩ MAX (INITIAL); 1.3. DIELECTRIC WITHSTANDING VOLTAGE: 500V AC MIN.; 1.4. INSULATION RESISTANCE: 1000MΩ MIN.;
2. DURABILITY	1. DURABILITY: 500 CYCLES MIN.; 2. INSERTION FORCE: 3.5kgf (35N) Max.; 3. EXTRACTION FORCE: 0.8kgf (8N) Min.
3. WATER PROOFNESS:	4. PRODUCT IS BASED ON IPX6.
4. PLUG INTERFACE DIMENSIONS:	5. WATER PROOFNESS: THIS PRODUCT IS BASED ON IPX6.
5. PACKAGING:	6. PLUG INTERFACE DIMENSIONS CONFORM TO USB2.0 SPEC.
6. THERMAL:	7. PACKAGING: TAFFP - REFL.

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P.C. B LAYOUT

Dimensions shown in mm:

- Width: 120
- Height: 8.70
- Top edge height from bottom: 5.80
- Bottom edge height from bottom: 4.80
- Left edge height from bottom: 2.60
- Right edge height from bottom: 5.65
- Left side height from left: 1.30
- Left side width from left: 0.25
- Left side gap from center: 0.40
- Top gap from center: 2.20
- Top gap from top edge: 1.35
- Bottom gap from bottom edge: 1.20
- Bottom gap from center: 0.60
- Component 1# (bottom): Centered horizontally at ~4.5mm from left edge.
- Component 5# (top): Located at the top edge, aligned with the 1.35 gap.

ITEM	PART	NAME	Q' TY	FINISH	NOTE
3	Shell	SUS304R-1/2H	1	Ni Plating T=0.30mm	
2	Contact	Phosphor bronze Au/Ni Plating	5	C5191R-EH T=0.20mm	
1	Housing	PAGT&LCP (G.F30%)	1		

APPD:	罗孝金	2020.6.16	DWG NO.:	USB-1101IPX6-01		
CHKD:	钟华华	2020.6.16	SCALE		SHEET	REV.
DR:	李春风	2020.6.16		1/1	1/1	A1

Contact Number	Signal Name	Remarks
1#	VBUS	Power
2#	D-	Date-
3#	D+	Date+
4#	ID	Reserve or Ground
5#	GND	Ground



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承 认 书

SPECIFICATION FOR APPROVAL

客 户 Customer:

产品名称 Project:

Micro USB

规格型号 Part No:

USB-1101IPX6-01 093

贵公司承认印 Approval signatures

料 号/Part No.	签 章/Signatures

日期 Date:

拟制/Drawn	李春风	
审核/Check	钟华华	
批准/Approved	罗孝金	



深圳市首韩科技有限公司

1. 物料明细:

- 1.1. 塑胶部分: LCP UL94V-0
 1.2. 接触端子部分: C5191R-H, 镍底, 接触部位镀金 1μ "
 1.3. 外壳部分: C2680, 外壳镀镍底 50μ ", 镀锡 80μ

2. 工作条件:

- 2.1. 工作电流: 2Ampere
 2.2. 使用温度: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$

3. 电气性能部分

序号	测试项目	规格和标准	测试方法及参考标准
3.1	接触阻抗	$30m\Omega$ MAX	以低功率电流测试产品接触部位阻抗值 参考: EIA 364-23A
3.2	绝缘阻抗	$100M\Omega$ MIN $100V$ DC	测试相邻接触脚位之间塑胶阻抗值 参考: EIA 364-21A
3.3	耐压测试	250V AC 1分钟 0.5mA	以 0.5mA 的电流测试接触脚位之间塑胶耐高压 1 分钟 参考: EIA 364-20A

4. 机械性能部分

4.1	插入力	3.5kgf MAX	与线端匹配时, 线端以 25mm/分速度插入时的力 参考: EIA 364-13A
4.2	拔出力	0.8kgf MIN	与线端匹配时, 线端以 25mm/分速度拔出时的力 参考: EIA 364-13A
4.3	端子单PIN 保持力	0.5 kgf MIN	接触 PIN 以 25mm/分速度从塑胶中退出来的力
4.4	寿命测试	1. 产品外观无明显损伤 2. 插入力: 3.0kgf MAX 拔出力: $0.7\sim1.8\text{ kgf}$	以每小时 600 次匀速插拔产品 5000 次 参考: EIA 364-09A
4.5	振动测试	10^{-6} 秒	以每分钟频率由 10HZ 至 55HZ, 再回到 10HZ 为一循环, 连续测试 X/Y/Z 三个方向各 2 小时。 振幅为 1.5mm 参考: EIA 364-28A

5. 环境性能部分

5.1	沾锡性	吃锡面积达 95%以上	产品焊接区于温度为 $235\pm5^{\circ}\text{C}$ 锡炉中浸泡 5 ± 0.5 秒 参考: MIL STD-202F
5.2	耐高温	1. 外观无明显损伤 2. 接触阻抗 $100m\Omega$ MAX 3. 绝缘阻抗 $100M\Omega$ MIN	将产品置于 85°C 的高温炉中 96 小时后, 再于常温中置放 3 小时后观察。 参考: MIL STD-1344A
5.3	低温性	1. 外观无明显损伤 2. 接触阻抗 $100m\Omega$ MAX 3. 绝缘阻抗 $100M\Omega$ MIN	将产品置于 -40°C 的低温炉中 96 小时后, 再于常温中置放 3 小时后观察。 参考: MIL STD-1344A
5.4	耐湿性	1. 外观无明显损伤 2. 接触阻抗 $100m\Omega$ MAX 3. 绝缘阻抗 $100M\Omega$ MIN	将产品置于温度为 $40\pm2^{\circ}\text{C}$, 湿度为 $90\sim95\text{RH}$ 环境中, 120 小时后观察。 参考: EIA 364-31A
5.5	耐腐蚀性	1. 外观无明显腐蚀 2. 接触阻抗 $50m\Omega$ MAX	将产品置放于盐水浓度为 5%, 温度 $35\pm2^{\circ}\text{C}$ 的盐雾箱中连续喷雾 12 小时, 于常温放置 1 小时后观察产品。 参考: EIA 364-26A
5.6	耐焊接性	1、 外观无明显变色、起泡; 2、 焊脚吃锡平滑	建议回焊曲线: