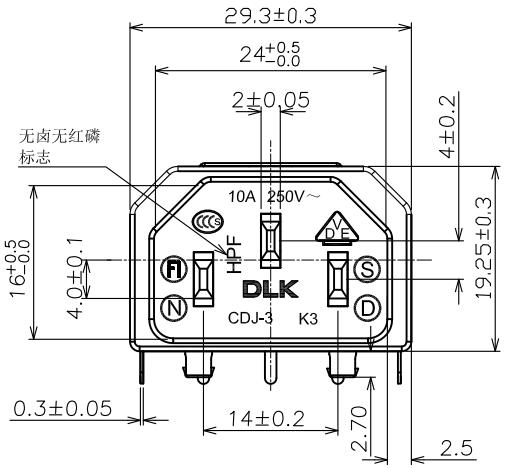
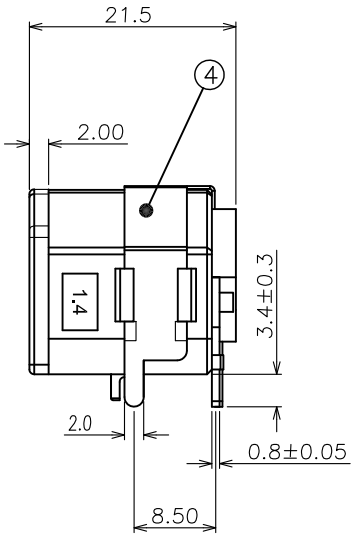
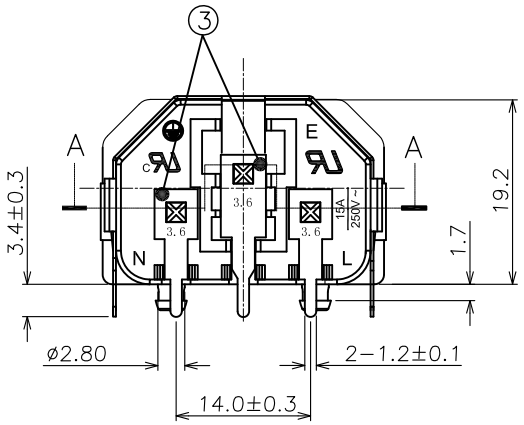
符合"DLK环境管理物质技术标准"

工程变更通知单 ECN(DCN) NO.	版本 REV	日期 DATE	说明 DESCRIPTION	改变 CHANGE	承认 APPRO.
KSECN18022	A	20180404	NEW	——	——

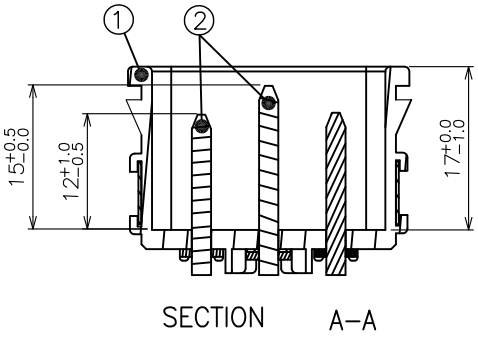




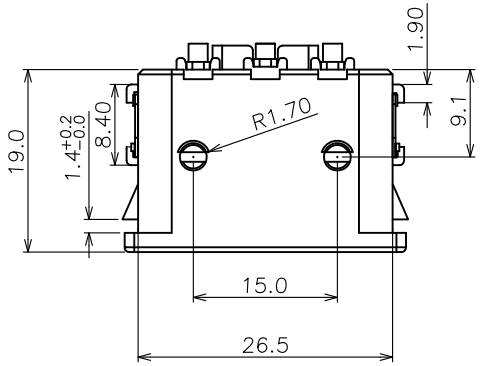


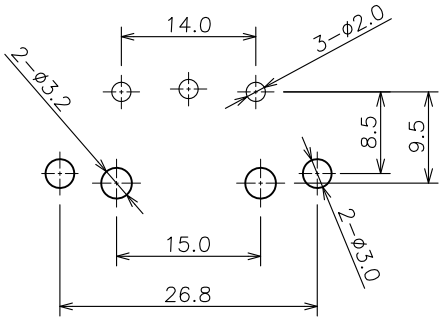
ACT3K D-03B T3 B 016HPF
① ② ③④ ⑤ ⑥

① PRODUTION CODE（产品编码）:
ACT3K: AC SOCKET SERIES
② CHARACTER（特征）:
D: STRAIGHT ANGLE TYPE
③ POSITION（位数）:
03: 3 PIN
④ COLOR OF HOUSING(本体颜色):
B:BLACK COLOUR
⑤ PLATING OF CONTACT(端子电镀):
T3: Tin PLATD
⑥ PACKAGE(包装）:
B : BOX PACKAGE



SECTION A-A





PCB LAYOUT

INSULATION RESISTANCE: 100MΩ MIN.
CONTACT RESISTANCE : ≤30mΩ
INSERTION FORCE : ≤60N
EXTRACTION FORCE : 10～50N

NO.	ITEM	Q'TY	DESCRIPTION	FINISH
4	Soldering Pin	1	SPTE	Tin
3	Soldering Pin	3	Brass	Tin
2	Contact Pin	3	Brass	Tin
1	INSULATOR	1	PC UL94V-0	Black

GENERAL TOLERANCE UNLESS OTHERWISE NOTED	
Angle	±5°
X.	±0.30
.X	±0.25
.XX	±0.15
.XXX	±0.10
A4	

德力康电子科技有限公司
DELIKANG ELECTRONICS TECHNOLOGY CO.,LTD

C	名称 TITLE:	CDJ-3 底部切平90D 无卤无红磷带铁壳			
档案名称 FILE NAME:	C-ACT3K-00-16HPF	料号 PART NO:	ACT3KD-03BT3B016HPF		
DRAWING	汪庆	CHECKED	王永辉	APPROVED	严成旺
UNIT:	mm	SCALE	1:1	SHEET:	1 of 1

Specification

1. General(一般事项)

1.1 Application: This specification is applied to the inlet socket used in electronic equipment.
使用范围：本规格书主要用于一般电子设备之插座.

1.2 Operation Temperature Range. 使用温度范围：0℃～85℃

1.3 Storage Temperature Range. 保存温度范围：-20℃～100℃

1.4 RH 相对湿度:45～85%

1.5 Atmospheric pressure 气压：860～1060Mbr.

2.Appearance Construction and Dimensions (外观、构造、尺寸)

2.1 Aappearance: Inlet socket shall have good finishing,and shall have no rust,crack or plating failure.
外观：各部分之加工徐良好，机能上下不能生锈、刮伤、裂痕、电镀不良及剥离等现象发生.

2.2 Cleeansing condition:inlet socke′ s surface shall avoid contact with oil sludge and shall not be exposed to the air for a long tiom.
清洁条件：避免插座表面与空气长时间接触及油渍沾污.

2.3 Construction and dimension:as per product drawing.
构造及尺寸：依组立图.

3.Electruction performance(电气性能)

Item 项目		Test conditions 测试条件	Standards 判定标准
3.1	Contact Resistance 接触电阻	To be measured with 5vdc,1a 1 min (100 mA or less) 以电压 5V DC 1 分钟, 电流 100mA(最大)状态下测试.	30mΩ MAX. 30 毫欧以下.
3.2	Insulation Resistance 绝缘电阻	To be measured with an insulation resistance device of 500VDC between all theerminals and between the terminals and the frame for 1minute±5se tconds 以 500V DC 电压加于接触销相互间 1 分钟±5 秒测定之.	More tnan 100MΩ. 100 兆欧以上.
3.3	Dielecttic Withstand Strength Test 耐电压	Apply a viltage to seconds(50～60Hz) as follows: 如下列测定条件: 1.2000VAC/1minute between each pins; 2.4000VAC/1minute between pins and the base; 1.输入 AC 2000V 电压 1 分钟以上,在所有端子间. 2.输入 AC 4000V 电压 1 分钟以上,在端子与本体间.	No breaking insulation. Induced current:1mA 不可有绝缘破坏等异常. 漏电电流:1mA

4.Mechanical performance (机械性能规格)

Item 项目		Test conditions 测试条件	Standards 判定标准
4.1	Inserting Force 插入力度	Measurement shall be made after connecting and Disconnecting using standard plug gauge 3 times. 依据标准的 PLUG GAUGE 做 3 次拔插后测定.	6kgf MAX. 最大 6kgf.
	Extracting Force 拔出力度	Measurement shall be made after connecting and Disconnecting using standard plug gauge 3 times. 依据标准的 PLUG GAUGE 做 3 次插拔后测定.	Between 1～5kgf. 1～5kgf 之间.
4.2	Rivet force (betweenterminal and pin) 铆合拉力(端子与接触销)	A static load of 10kgf shall be applied to the between terminal and pin riveted of reverse for 1minute. 沿端子与接触销之铆合之反方向施于静负荷力 10kgf/1 分钟	The terminal may be deformed but shall not sustain any problem as breacking of terminal. 端子不可有脱落和破裂现象，但可容许弯曲.
4.3	Rivet force (between pin and base) 铆合拉力(接触销与底座)	A static load of 8kgf shall be applied to the between pin and base riveted of reverse for 1minute. 沿端子与接触销之铆合之反方向施于静负荷力 8kgf/1 分钟	The terminal may be deformed but shall not sustain any problem as breacking of terminal. 端子不可有脱落和破裂现象，但可容许弯曲.

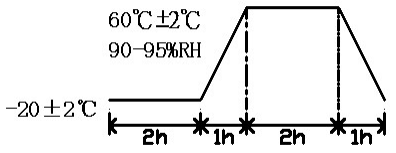
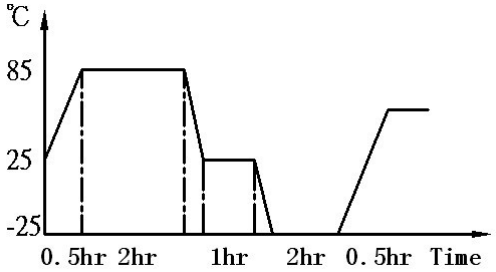
Specification

<table>
<tr><td>4.4</td><td>Shearing force
剪力测试</td><td>A static of 10kgf shall be applied to tip of the pin of perpendicular for 1 minute.
沿接触销之垂直方向末端施于静负荷力 10kgf/1 分钟</td><td>Electrical characteristics shall be satisfied,there shall be no distinct looseness or deformation in mechanical system.
满足电气性能，机械性能方面，没有明显的松动和变形.</td></tr>
<tr><td>4.5</td><td>Ultrasonic weld force
超音波熔接强度</td><td>A static load of 3kgf shall be applied in reverse of welding of cover for 1 minute.
沿熔接相反方向施于静负荷力 3kgf/1 分钟.</td><td>Thecover shall not sustain ang problem as breaking.
盖板务脱落现象.</td></tr>
<tr><td>4.6</td><td>Soldering heatresistance
耐锡热</td><td>Temperature and duration of dipping 焊锡温度和侵入时间：
<table>
<tr><th>Terminal of lead
导线端子</th><th>Temperature
温度</th><th>Time
时间</th></tr>
<tr><td>Manual soldering
手焊式</td><td>350±10℃</td><td>4-5sec</td></tr>
<tr><td>Dip soldering
锡炉式</td><td>260+2/-0℃</td><td>10±0.5sec</td></tr>
</table></td><td>No abnormalities shall be observed in appearance and operation. The electrical performance of the above item 3 shall be assured.
外观无明显变形及动作无异常，且满足第三项电气性能.</td></tr>
<tr><td>4.7</td><td>Solderabi-Lity Test
可焊性试验</td><td>The top of the terminals shall be dipped 2mm
In the solder bath of 235±5℃ for 2.5±0.5seconds.
端子顶部被浸入锡焊池中(≧焊线区域深),温度控制在 235±5℃,过炉时间为 2.5±0.5 秒.</td><td>The area of soldering.
should be over 90%.
着焊锡面积要有 90%以上.</td></tr>
<tr><td>4.8</td><td>Vibration (sinusoidal)
震动测试(正弦曲线)</td><td>Where not otherwise specified,semiconductor devices are to conform with condition A,and other parts with condition B.
<table>
<tr><th>Condition</th><th>A</th><th>B</th></tr>
<tr><td>Kind of vibration</td><td colspan="2">Frequency Modulation</td></tr>
<tr><td>Amplitude or frequency</td><td>200m/s²(20G)</td><td>1.5mm Constant</td></tr>
<tr><td>Ratio of sweep</td><td>100～2000～100Hz
about 4 min.</td><td>10～55～10Hz
about 4 min.</td></tr>
<tr><td>Time</td><td>X,Y,Z Directions
Each once 48 min</td><td>X,Y,Z Directions
Each Once 2 hr.</td></tr>
</table></td><td></td></tr>
<tr><td>4.9</td><td>Shock
冲击测试</td><td>Maximum acceleration:1000m/s² (100G)
Pulse width:6msec
Shape of shock wave:semi-sine wave
Shock frequency:continuously 3 times for each of 6 facets
(total 18 times)</td><td></td></tr>
<tr><td>4.10</td><td>Terminal strength
端子保持力</td><td>A static load of 5kgf be applied to pins for 1 minute.
施予端子 5kgf 的力 1 分钟</td><td>Terminal not remove
端子不可移动</td></tr>
</table>

Specification

4.11	Durability **耐插拔**	Without load:connection and disconnection shall be made with the mating plugs and jacks for 5,000 cycles at a speed of 20 cycles/min. **无负荷:用标准 plug(尽量要近于中心的)在 1 分钟内以 20 次的速度,进行 5,000 次插入、拔出.**	Pin not bend or broken; The electrical performance of the above item 3 shall be assured. 接触销无明显变形，损坏; **满足第三项电气性能.**
5.weather proof (耐候性)			
Item 项目		Test conditions 测试条件	Standards 判定标准
5.1	Dry proof 耐热性	The ac socket shall be stored at a temperature of 80±2℃ for 96 hours.and then it shall be subjected to the controlled recovery conditions for 1 hour after which measurement shall be made. 放置在温度 80±2℃中 96 小时后,再置于正常室温中 1 小时来测定.	1.Clause 4.1 shall be satisfied. 2.Contact resistance:30mΩ. 3.Deformation or cracks shall not be recognized in molded part. 1.必须满足 4.1 项; 2.接触阻抗:30mΩ以下; 3.塑胶部分不能变形或破裂.
5.2	Cold proof 耐寒性	The specimen shall be stored at a temperature of -20±2℃ for 96h.and then the specimen shall be subjected to the controlled recovery conditions for 1h,after which measurement shall be made. The measurement shall be made within 1 hr after the recovrey period. 在温度-20±2℃放置 96 小时试验后,置于常温常湿中 1 小时内测定之.	1.Clause 4.1 shall be satisfied. 2.Contact resistance:30mΩ. 3.Deformation or cracks shall not be recognized in molded part. 1.必须满足 4.1 项; 2.接触阻抗:30mΩ以下; 3.塑胶部分不能变形或破裂.
5.3	Damp heat (steady state) 耐湿性 (稳定状态)	Put in the environment of temperature 38-42℃& relate humidity 90～95%rh 120 hours, then moved to normal environment 1hour for test. 放置在温度 38-42℃,相对湿度 90～95%RH 的环境中 120 小时后,再将样版放在正常环境 1 小时后进行测试. (IEC60065)	1.Clause 4.1 shall be satisfied. 2.Contact resistance:30mΩ. 3.Deformation or cracks shall not be recognized in molded part. 1.必须满足 4.1 项; 2.接触阻抗:30mΩ以下; 3.塑胶部分不能变形或破裂.
5.4	Terminal Strength 端子强度	Apply 5N gravity in the direction of the terminal of axis X, Y,Z for 10 seconds,After soldering and fixing the PC board Properly, insert and withdraw 100 cycles, But the inscrtion Force is 15N max. 在端子各方向加 5N 的重力，X,Y,Z 方向，负荷 10 秒，焊接并固定印刷线路板后，插拔力 100 次，但插力在 15N 以下。	There are no crack, no damage Electrical performance, Normal **端子上无裂纹，损伤等，电阻性能正常**
5.5	Salt mist 盐雾测试	1.Temperature:35±2℃ 2.Salt water:5% weight to concentration ratio 3.Time：48hrs 1.温度：35±2℃ 2.盐水：5%的浓度比例 3.时间：48 小时（连续喷雾，端子于接触销不可生锈,镀锡件 48 小时）	After-test kept in the room temperature for 1 hour, than measured it within 1 hour after rid of grime and emit water. No abnormalities shall be observed on the appearance and construction. 实验后置于室温 1 小时，然后出去污渍与水滴再于 1 小时内测定之. **外观无异常现象;**
		膜厚類型 / 測試時間	判定
		AC SOCKET	
		镀锡部件 / 48H	無氧化,銹蝕 (SPTE材质不要求)
		镀锡之焊锡部件 / 48H	
		金属件與非金屬/折彎處/切口 / 24H	
		外部連接 port / 48H	
		接觸端鍍金(包含 15u"與 15u"以上) / 48H	
		接觸端鍍金(包含 15u"以下上) / 48H	

Specification

5.6	Damp heat cyclic 温湿度循环	 Test cycles:40 cycles 循环试验：40个循环 Time of 1 cycles:6hrs 1个循环时间：6小时 Kept in the room temperature for 1 hour, then measured it within 1 hour afer emit water. **置于常温 1 小时再除去水蒸气并于 1 小时内测定之.**	1.Max contact resistance:30mΩ. 2.Min insulation resistance:100MΩ. 3.Abnormalities shall be observed on the appearance and construction. 1.接触阻抗:30mΩ以下; 2.绝缘电阻：100MΩ; **3.外观构造无异常现象.**
5.6	Temperature cycling test 循环温度测试	Testing in the conditions as follows for 8cycles, after-test kept in the room temperature for 1 hour, than measured it within 1 hour after rid of grime and water. 置于恒温恒湿机中: 温度：如图 Temperature: as chart 湿度：85%以下 Humidity:85%RH Max 时间：48H Test Time:48H 如下图连续循环 8 次，试验后置于室温中 1 小时，然后出去污渍与水滴再于 1 小时内测定之（6hr/Cycle）. 	1.Clause 4.1 shall be satisfied. 2.Contact reisitance:30 MAX. 3.Deformation or cracks shall on be recognized in plastic. 4.No abnormalities shall be observed on the appearance and construction. 1.必须满足 4.1 项 2.接触阻抗：30 mΩ以下 3.塑胶部份不能变形或破裂. 4.外观构造无异常现象.
5.7	Digesting Test 蒸煮试验	The AC socket shall be stored at vapor a temperature of 100±2℃ for 1 hours, and then it shall be subjected to The controlled recovery conditions for 2 hour after which Measurement shall be made in the solder bath for 3±0.5 seconds. 放置在温度 100±2℃的水蒸气中 1 小时后，再置于正常室温中 2 小时后，进行可焊性测定.	The area of soldering ,should be Over 90%,Surface of soldered terminal are niformity,gloss, the tin layer Covering the full. 着焊锡面积要有 90%以上，端子焊锡表面均匀，表面光泽，层覆盖完整.
* The abave are which are in accordance with international specification.			
备注：			