### **TACTRONIC**

### APPROVAL SPECIFICATIONS

CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
		DC-035Y	DC JACK	А

#### 1、 概述

#### **GENERAL**

1.2 适用范围

#### **APPLICATION**

此规格书适用于机械式 DC 插座的相关要求

This specification is applied to the requirements for DC JACK (MECHANICAL CONTACT)

1.3 工作温度范围

#### **Operating Temperature Range**

- -20℃~70℃(在标准大气压、标准湿度条件下)
- -20 °C ~ 70 °C (Normal humidity, normal air pressure)
- 1.4 贮藏温度范围

#### Storage Temperature Range

- -30℃~80℃(在标准大气压、标准湿度条件下)
- $-30^{\circ}$ C  $\sim$ 80 °C (Normal humidity, normal air pressure)
- 1.5 测试条件

#### **Test Conditions**

在没有其它特定的条件下,应该在以下的条件下进行测试和测量:

Unless otherwise specified, tests and measurement shall be made in the following standard conditions:

常温......5℃~35℃

Normal temperature......5°C ~35°C

标准湿度......相对湿度 25%~85%

Normal humidity.....relative humidity 25%~85%

标准大气压......86KPa~106Kpa

Normal air pressure......86Kpa~106Kpa

在制造过程中,测试和测量应该在以下的条件下进行:

If any doubt arise from the judgment, tests shall be conducted at the following conditions:

温度......20℃±2℃

Temperature......20  $^{\circ}\text{C}\pm2^{\circ}\text{C}$ 

相对湿度......65%±5%

Relative humidity......65%±5%

环境气压......86KPa~106Kpa

Air pressure......86KPa~106Kpa

APPROVE BY	孙斌	CHECKED BY	石兰中	PRPARE BY	江伟鑫

### **©** TACTRONIC

## **APPROVAL SPECIFICATIONS**

CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
		DC-035Y	DC JACK	А

#### 2、 详细说明

Detailed specification

2.1 外观:应无影响、降低产品性能的缺陷;

Appearance: There should be no defects that affect the serviceability of product.

2.2 结构尺寸和安装尺寸:应符合装配图要求;

Style and dimension: shall conform to the assemble drawings.

2.3 操作形式:有插拔反应的操作

Type of actuating: DC feedback.

2.4 插座结构: 单回路单输出(具体的触点结构在装配图中已绘出);

Contact arrangement: 1 pole, 1 throw

(Details of contact arrangement are given in the assembly drawings.)

2.5 开关工作额定值: DC 30V, 3.5A (有效值)

Ratings: 30V DC, 3.5A (effective value)

3. 电气性能:

#### **ELECTRICAL SPECIFICATION**

项	目		Ì	试验条件			要求	
IT	EM		TEST CONDITIONS				UIREMENTS	
			在以 5V 10mA的直流电源或不低于1KHz的交流电源的电路中,以一个等于2倍按力的静负荷施加于手柄中心					
	 	妾触电阻	Applying a static	load of 2 times ope	rating force to		<100	
1	"		the center of the stem	, measurements sha	all be made by		≤100mΩ	
			5V DC 10mA or mo	re than 1KHZ AC	small-current			
	contact resistance meter.							
2	Ir	nsulation esistance	之间底座、盖板的电阻	Il be made following across terminals,	application of		≥100MΩ	
3	Die	质耐压 electric age proof	在端子之间施加 500V AC(50HZ 或 60HZ)/1min 500V AC (50HZ or 60HZ) shall be applied across terminals, for one minute.				击穿、无飞弧 There should be breakdown and flashover	
APPROVE BY 孙斌 CHEC		CHECKED BY	石兰中	PRPARE B	Y	江伟鑫		



С	USTOMER	CUSTOMER'S	S P/N GYE	S P/N	PRC	DUCT		REVISION
			DC	-035Y	DC	JACK		А
	项目 ITEM		试 验 组 TEST CONI	. , ,			REG	要求 QUIREMENTS
	械性能: IANICAL SPI	ECIFICATION						
1	插拔力 Operating Force	头与插座导通所 Placing the JA vertical and the center of the st	宇方向放置,在插座 行需的最大力度。 CK such that the en gradually incre em, the maximum shall be measured	direction of Ja easing the load load required	ACK opera	ation is to the		5-30N
2	最大行程 Full Trave	动的距离。 I Placing the JA0	Placing the JACK such that the direction of JACK operation the travel distance for the JACK to come to a stop shall be					6±0.1mm
3	可焊性 Solderabilit	Measurements (1) 焊接温度:2 Solder tem (2) 浸入时间:2 Immersion 对于其它步	在以下设定条件下进行测量: Measurements shall be made following the test set forth below: (1) 焊接温度:245±5℃ Solder temperature: 245±5℃ (2) 浸入时间:2s±0.5s Immersion time: 2s±0.5s 对于其它步骤参考《GB 5095.6—86》试验 12a The other steps please refer to《GB 5095.6-86》TEST 12a					外涂层应均匀覆盖 c for the edge, the should cover a n 90%
APP	ROVE BY	孙斌	CHECKED BY	石兰中	1	PRPARE	E BY	江伟鑫



С	USTOMER		CUSTOMER'	S P/N	GYE'	S P/N	PF	RODUCT		REVISION
					DC-0	)35Y	D	C JACK		А
	项目				试验	条件			<u> </u>	要求
	ITEM				TEST CON	IDITIONS			RE	QUIREMENTS
	5、极限电气性能: ENVIRONMENTAL SPECIFICATION									
1	低温测试 Resistance low tempera	to iture	标准湿度的理 Following the normal tem measureme (1) 温度 Temp (2) 时间	Temperature : -30±2℃					Contac ≤200m 项目 3,4	
2	高温测试 Heat resista	nce	标准湿度的3 Following the normal tem measureme (1) 温度 tem (2) 时间	normal temperature and humidity conditions for 1 h before measurements are made:  (1) 温度: 80±2℃ temperature:80±2℃						⊞: ≤200mΩ t resistance: Ω 4.1,4.2,4.3 4.1,4.2,4.3
3	温度周期性 Change temperati	of	根据下面的测试要求进行 5 次循环的温度周期性测试,实验后样品应放在常温及标准湿度的环境中 1 小时后做性能测试。测试期间样品应保持干燥.  After 5 cycles of following conditions, the sample shall be allowed to stand under normal temperature and humidity conditions for 1 h. and measurements shall be made. During the test water drops shall be removed.  Temperature  Time  -10±2℃ 2(hour)  -10~65℃ 1 65±2℃ 2 65~-10℃ 1						Contac ≤200m! 项目 3,4	
APP	APPROVE BY 孙斌 CHECKED BY 石兰中 PRPARE					E BY	江伟鑫			



С	USTOMER		CUSTOMER'S I	P/N GYE	S P/N	PRODUCT		REVISION
				DC-	035Y	DC JACK	А	
	项目 ITEM	l		试 验 TEST CON			要求 REQUIREMENTS	
4	湿温测记 Moistur resistand	е	标准湿度的环境 Following the normal tempe measurements (1) 温度: tempera (2) 相对湿	60±2℃ ature: 60±2℃ 度: 90%~95% humidity:90% to 96h	接触电 Contac ≤200m 项目 3			
5	硫化试验 Sulfurati resistand	on	标准湿度的环境 Following the normal tempe measurements (1) H <sub>2</sub> S 气 H <sub>2</sub> S gas (2) 时间: Time: 7	体浓度:3ppm±1 s concentration: 72h	接触电 Contac ≤200m 项目 3			
6	盐雾试验 Salt Mis		在以下设定条件下进行测量: The JACK shall be checked after following test: (1) 温度: 35℃±2℃ temperature: 35℃±2℃ (2) 盐溶液浓度: 5±1% (质量百分比) salt solution: 5±1%(solids by mass) (3) 时间: 8h±1h Time: 8h±1 hour					·上没有腐蚀斑点 markable corrosion be recognized in part.
APP	ROVE BY		孙斌	CHECKED BY	石兰口	† PRPAR	E BY	江伟鑫

## **©** TACTRONIC

С	USTOMER		CUSTOMER'S P/N	GYE'	S P/N	Р	RODUCT		REVISION
				DC-0	035Y	Г	OC JACK		А
1	限机械性能: NDURANCE	SPEC	CIFICATION						
	项目			试 验	条 件				要求
	ITEM			TEST CON	IDITIONS			RE	QUIREMENTS
1	工作寿命 Operation		Measurement shall (1) DC 30V, 3 DC 30V, 3 (2) 按动速率: 1 Rate of op (3) 插拔力: 超 Operating Fo (4) 寿命: 500	限据下面的测试要求进行测试:  Measurement shall be made following the test set forth below:  (1) DC 30V, 3.5A 带负载     DC 30V, 3.5A resistive load  (2) 按动速率: 1 次/秒     Rate of operation: 1 times/s  (3) 插拔力: 插拔力 5-30N     Operating Force: 5-30N					阻≤200mΩContact nce≤200mΩ 初值的±30% ng Force: alue±30% 4.1,4.2,4.3
2	振动 Vibra	tion	根据以下给定条件 Measurement shal (1) 振动频率率 Vibration (2) 振幅(峰- Amplitude (3) 振动方向: Direction direction i (4) 测试时间:	根据以下给定条件进行测试: Measurement shall be made following the test set forth below:  (1) 振动频率范围: 10~55~10Hz Vibration frequency range: 10 to 55 to 10Hz  (2) 振幅(峰一峰): 1.5mm Amplitude: 1.5mm  (3) 振动方向:包括手柄行程方向在内的三个相互垂直的方向 Direction of vibration:Three mutually perpendicular direction including the direction of stem travel					4.1,4.2,4.3 4.1,4.2,4.3
1	接条件: ERING CON	DITIO	NS:						
7.1	请按以下条件进行焊接: (1) 焊锡温度: ≤350℃ (2) 连续焊接时间: ≤3 s  Please practice according to below conditions: (1) Soldering temperature: 350℃ Max. (2) Continuous soldering time: 3 s Max.								
APP	ROVE BY		孙斌 CHE	ECKED BY	石兰中	Þ	PRPARE	BY	江伟鑫



CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION				
		DC-035Y	DC JACK	А				
项目	推荐条件							
ITEM		Recommen	ded conditions					
回流焊时 7.2 Conditions for reflow		120sec max.(预 3 to 4 m 炉内通过	热) 40s m	—— 时间				

说明: 1.1 开关浸焊后,注意不要用溶剂清洗。

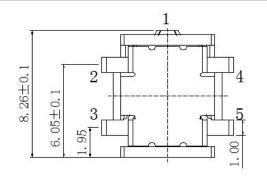
After JACKes were soldered, please be careful not to clean JACKes with solvent.

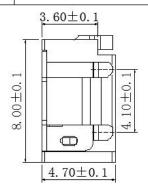
- 1.2 在使用烙铁的情况下,焊锡温度应在 350℃以下、3 秒以内。 In the case of using solding iron, solding conditions shall be 350℃ max and 3 sec.max.
- 1.3 浸焊后,注意不要在顶部施加负荷。
  Right after JACKes were soidered; please be careful not to load to on the knobs of JACKes.
- 2 设计中应注意的事项( Design instructions):
- 2.1 印刷基板的安装孔尺寸参见产品图。
  Follow recommended P.W.B. piercing plan in outside drawing page.
- 3 注意点(Note):
- 3.1 注意不要施加超负荷的压力或晃动开关 Please be cautions not to give excessive static load or shock to swiches.
- 3.2 开关浸焊后,印刷基板注意不要叠放。 Please be careful not to pile up P.W.B.after JACKes were soldered
- 3.3 保管时尤其应注意避开高湿高温和有腐蚀性气体的环境。如需要长时间保存,请不要打开包装箱。 Preservation under high temperature and high high humidity or corrosive gas should be avoided Especially . When you need to preserve for a long period ,do not open the carton .

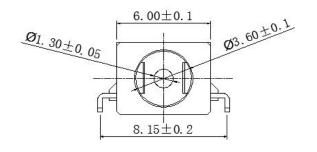
APPROVE BY	孙斌	CHECKED BY	石兰中	PRPARE BY	江伟鑫

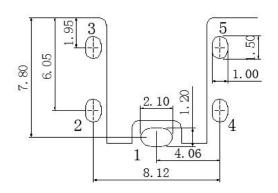


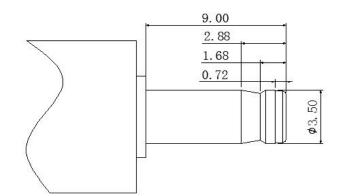
CUSTOMER	CUSTOMER'S P/N	GYE'S P/N	PRODUCT	REVISION
		DC-035Y	DC JACK	А

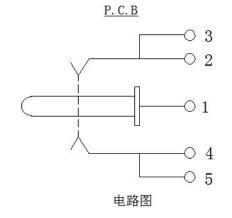












NO.	NAME	MATERIAL	QTY	FINISHING
1	Contact	Copper	1	Ni(镍)底/Ag(银)
2	Terminal	Phosphor Copper	1	Ni(镍)底/Ag(银)
3	Case	LCP	1	Yellow