



香港恆鴻電子五金有限公司

HK Heng Hong Electronics Hardware Limited

東莞市德藝隆電子有限公司

DG De Yi Long Electronics Hardware Limited

產品規格承認書

SPECIFICATION FOR APPROVAL SHEET

客 戶：

CUSTOM : 矽 遞

品 名：

DESC. : 拨动开关

型 號：

PARTNO : SK-12D01 VG4 ROHS

客戶型號：

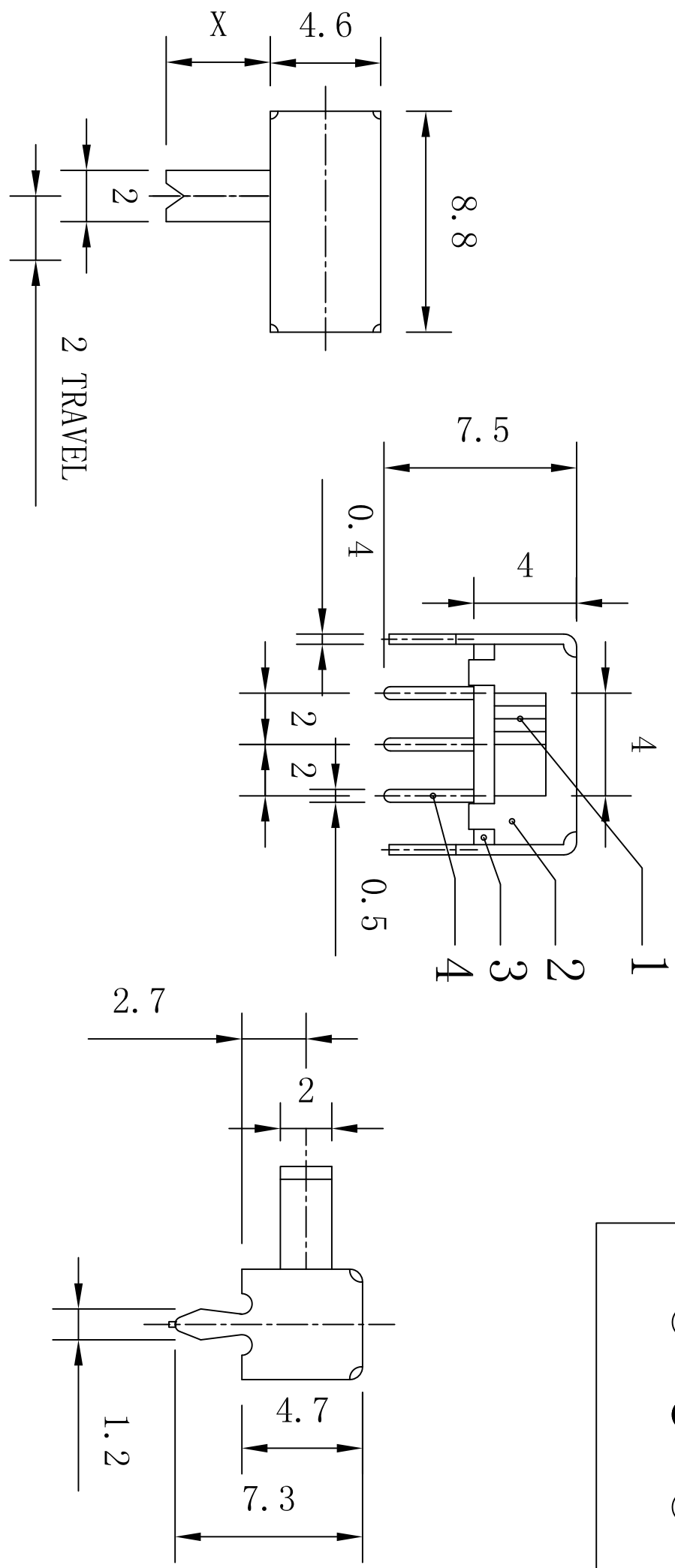
CUST. NO: \_\_\_\_\_

承認單位 DEPT.	採購部 PURCHING	品管部 QC	研發工程部 R&Q	零件承認單 APPROVALSLGNET
審核 CHECK				
確認 APPOVAL				
審核結果： INSPEC.RESULT				
<div><input type="checkbox"/> 合格 ACCEPT</div> <div><input type="checkbox"/> 不合格 REJECT</div>				

日期:2014-04-16

地址: 东莞市塘厦第一工业区  
E-mail:xinhanghong@126.com

电话: 0769-87886222 传真: 0769-27200836  
<http://www.moralityele.com>



8					TOLERANCE							
7					UNLESS SPECIFIED							
6					WITHIN: 1.5mm+0.1mm							
5					OVER: 1.5mm+0.3mm			ISSUE	DATE		DESCRIPTIONS	APPD
4	TERMINAL	BRASS STRIP	3		TITLE:			UNIT: MM		DRWG NO: SK-12D01		
3	TERMINAL BASE	PHENOLIC RESIN	1					DWG		单润球	23/06/2003	
2	FRAME	STEEL STRIP	1					MODEL: SK-12D01-VG			SCALE: 1:3	
1	KNOB	POM	1		东莞市德艺隆电子有限公司			CHK'D				
NO.	PART NAME	MATERIAL	QTY	FINISHING				APPD				

HENG HONG ELECTRIC CO., LTD.		文件编号	
		发布日期	2007 年 05 月 09 日
SPECIFICATION 规格书		第 A 版	第 1 页 共 4 页
SERIES 产品系列	SIDE KNOB SWITCH	MODEL NO 产品名称	SK-12D01 VG4 ROHS
DRAWN 制订	李世喜	APVD 审批	
1. Rating 额定电压、电流 : DC 50V 0.3A			
2. Function 接触型式 1 P 2 T			
3. Electrical Characteristics 电气性能规格 :			
Item 项目		Test conditions 测试条件	Performance 规格
3.1	Contact Resistance 接触电阻	Measured at small current(100 ma or less)1000Hz 在微小电流(100mA)以下测试.	30mΩ MAX. 30 毫欧以下.
3.2	Insulation Resistance 绝缘电阻	Apply a voltage of 500V dc for 1 MIN. T0 following portions after which Measurement shall be made. (1) Between body and conductor. (2) Between conductors not to be contact. 输入 500V DC 电压 1 分钟, 按以下接触方法测试: (1) 端脚相互之间. (2) 端脚与外壳之间.	100 MΩ MIN. 100 兆欧以上.
3.3	Dielectric strength 耐电压	AC 500V(50-60Hz) for 1 min trip current:0.5mA (1) Between terminals. (2) Between individual terminals and frame. 输入 AC 500V(50-60Hz) 电压, 1 分钟感度电流为 0.5 ma 按以下接触方法测试: (1) 端脚相互之间. (2) 端脚与外壳之间	Without damage to Parts arcing or Breakdown etc. 没有绝缘破坏等异常
4. Mechanical characteristics 机械性能规格 :			
Item 项目		Test conditions 测试条件	Performance 规格
4.1	Terminal Strength 端子强度	A static load of 300gf shall be applied to the tip of the terminal for 15 sec in any direction. 在端脚前端任意一个方向加 300gf 力度测试, 时间为 15 秒.	Electrical characteristics Shall be satisfied without Damage or excessive Looseness of actuator. 在端脚中没有裂开, 松动等异常, 满足于机械、电器性能.
4.2	Operating Force 操作动力	Measurement shall be made at the nearest Point of the compnent or at the point 3mm from the tip of the actuator (knob) 在距离胶柄前端 3mm 作测定点测试.	250±80gf
4.3	Displacement of Actuator (knob) 柄强度	A static load of 5 n (0.5kg) shall be applied to the Top of the actuator (knob)and then displacement shall be measured to the dir-eciton of the arrow 在柄的前端施加 0.5kg 的力度, 位移应沿印记的方向上定	The lever shall have no Serious deformation and Function is normally 柄部无严重变形, 可以正常工作.
5. durability 耐久性 :			
Item 项目		Test conditions 测试条件	Performance 规格
Life test 寿命试验		Without load:an actuator shall be subject to 10,000 cycles At a rain or 15-18 cycles for 1 minute 无负荷:操作者以每分钟 15-18 次的频率作 10,000 回之 无负荷测试.	(1)Contact resistance Shall be 200mΩ max (2)mechanical and electrical characteristics Shall be satisfied. (1)接触电阻不能超于 200 mΩ (2)其它, 满足于机械、电器性能.

CUN ZAI ELECTRIC CO , LTD		文件编号	
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SPECIFICATION 规格书		第 A 版	第 2 页 共 4 页
6. ENDURANCE CHARACTERISTICS (耐久性)			
Item 项目		Test conditions 测试条件	Performance 规格
6.1	SOLDERABILITY TEST 可焊性试验	THE TOP OF THE TERMINALS SHALL BE DIPPED 2MM IN THE SOLDER BATH OF 230±5℃ FOR 3±0.5 SECONDS 端子顶部被浸入锡焊池中 2MM 深，温度为，230±5℃时间为 3±0.5 秒	THE AREA OF SOLDERING SHOULD BE OVER 75% 焊接面积要有 75%以上。
6.2	RESISTANCE TO SOLDERING HEAT 耐焊性试验	SOLDER BATH METHOD : SOLDER TEMPERATURE 260±5℃ IMMERSION TIME 3±0.5 SEC IMMERSION DEPTH UP TO THE SURFACE OF THE BOARD THICKNESS OF PRINTED WIRING BOARD 1.6MM DIMENSIONS OF COMPONENT HOLES IN THE PRINTED WITH THOSE SPECIFIED BEING ACCORDANCE WITH THOSE SPECIFIED IN THIS SPECIFICATION 焊炉焊接时候温度控制在 260±5℃，过炉时间 3±0.5 秒，（基板）厚度为 1.6MM。	WITHOUT DEFORMATION OF EXCESSIVE LOOSENESS OF TERMINAL ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 本体无变形，能满足于机械，电气性能。
6.3	HEAT TEST 耐热试验	THE JACK SHALL BE STORED AT TEMPERATURE OF 70±2℃ FOR 48 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 70±2℃中测试 48 小时后，再放置正常室温中 1 小时来定。	THERE SHALL BE NO DAMAGE APPEARANCE MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 外观无异常，满足于机械，电气性能。
6.4	COLD TEST 耐冷试验	THE JACK SHALL BE STORED AT TEMPERATURE OF -25±3℃ FOR 48 HOURS . AND THEN IT SHALL BE SUBJECTED TO THE CONTROLLED RECOVERY CONDITIONS FOR 1 HOUR AFTER WHICH 放置在温度-25±3℃中 48 小时后，再放置常温湿中 1 小时来测定。	THERE SHALL BE NO APPEARANCE . MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 外观无异常，满足于机械，电气性能。
6.5	HUMIDITY TEST 潮湿试验	THE JACK SHALL BE STORED AT TEMPERATURE OF 40±2℃ AND A HUMIDITY OF 90% TO 95% FOR 96 Hr . THEN THE JACK SHALL BE MAINTAINED AT STANDARD ATMOSPHERIC CONDITION FOR 1 Hr FOR OTHER PROCEDURES. 放置 40±2℃的相对湿度为 90-95%RH 环境中 96 小时后再将样板放在正常环境 1 小时后进行测试。	MECHANICAL AND ELECTRICAL CHARACTERISTICS SHALL BE SATISFIED 外观无异常，满足于机械，电气性能。
6.6	PUSH STRENGTH 按压试验	50N (5Kgf) for 1 minute 50N (5Kgf) 1 分钟	NO damage (Electrical and mechanical) 无异常 (电气、机械性能)

DE YI LONG ELECTRIC CO , LTD	文件编号	
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SPECIFICATION 规格书	第 A 版	第 3 页 共 4 页
7.Precaution (注意事项)		
<p>7.1、Preheat temperature 110℃ max. (Emblomental temperature of soldering surface of P.W.E) 预热温度. 110℃ 以下 (印刷基板焊锡面周围的温度)</p> <p>7.2、Preheat time 60 sec,max. 预热时间 60 秒以内。</p> <p>7.3、Area of flux 1/2 max of P.W.B.thickness. 助焊剂的面积, 印刷基板厚度的 1/2 以内.</p> <p>7.4、Temperature of solder 255℃ max. 焊锡温度, 255℃ 以下。</p> <p>7.5、Time of immersion Within 3 sec. 浸焊时间, 3 秒以内。</p> <p>7.6、Soldering number Within 2times (But should bring down heat of thefirst soldering). 浸焊次数, 两次以内 (但应把第一次焊锡的温度降下来)。</p> <p>7.7、After switches were soldered,please be careful not to clean switches with solvent . 开关浸焊后, 注意不要用溶剂清洗。</p> <p>7.8、In the case of using soldering iron ,soldering conditions shall be 280℃ max and 3 sec .max. 在使用烙铁的情况下, 焊锡温度应在 280℃ 以下、3 秒以内。</p> <p>7.9、Right after switches were soldered;please be careful not to load on the knobs of switches. 浸焊后, 注意不要在顶部施加负荷。</p> <p>7.10、Please be cautious not to give excessive static load or shock to switches. 注意不要施加超负荷的压力或晃动开关。</p> <p>7.11、Please be careful not to pile up P.W.B.after switches were soldered. 开关焊接以后, 印刷基板注意不要叠放。</p> <p>7.12、Preservation under high temperature and high humidity or corrosive gas should be avoided especially.When you need to preserve for a long period,do not open the carton. 保管时尤其应注意避开高温和有腐蚀性气体的环境. 如需长时间保存, 请不要打开包装箱。</p> <p>7.13、Preservation under high temperature and high humidity or corrosive gas should be avoided especially,when you need to preserve for a long period,do not open the carton. 特别注意避免将产品保存在高温、强湿度或有腐蚀性气体的地方。若长期保存, 请勿打开包装箱。</p>		