

乐清市戴尔电子有限公司 YUEQING DAIER ELECTRONIC CO., LTD

承认书 SPECIFICATION FOR APPROVAL

产 品 名 称: PRODUCT NAME	船形开关
产品型号: PRODUCT NO	KCD1-202-1
产品图号: PRODUCT DRAWING NO	
客户名称: CUSTOMER NAME	
客户料号: CUST MATERIAL NO	

戴尔确认 DAIER APPROVAL

编制/日期	审核/日期	批准/日期
ORGANIZER/DATE	CHECK/DATE	APPROVAL/DATE
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2017.1.14	2017.1.14	2017.1.14

客户确认 CUSTOMERAPPROVAL

品质部门/签名/日期	技术部门/签名/日期	确认/签名/日期
QC DEPT /SIGN/DATE	TECH DEPT /SIGN/DATE	APPROVAL/SIGN/DATE

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	或尔电子有公司	规	格 书		编号 No.		
	ER ELECTRON CO.,LTD	SPECIF	ICATION	N	版本号 SERSION	AO	
	沿形开关 ROCKER SWI		品型号 TYP	E	KCD1-202-1		
日期 DATE	2017.1.14		页码 PAGE		2 / 8		
项目ITEM	项目 ITEM 测试条件 TEST CONDITIONS 要求 REQUIREMENT						
1 概述GENERAL 1.1 系列 DESIGNATION 1.2 型号 MODULE No. 1.3 额定值 RATING: 1.4 使用温度 OPERAT 1.5 贮存温度 STORAGE 2.外观与尺寸APE 2.1 外观APPAERANCE: There shall be no d 2.2 标识MARKING: 应 There shall be trade on the switch body. 2.3 尺寸DIMENSIONS: 2. 姓台的 西式 DEDE	: KCD1-202-1 6A 250VAC 10A 125 ING TEMPERATURE RANGE TEMPERATURE RANGE PEARANCE AND D 无影响产品使用性能 efects that affect 有商标、型号、额定 emark, module No.,	VAC NGE: -25℃ TO PIMENSION E的缺陷. the servio 值、认证标; rating, li	55℃: NS ceability 志等标识. cense mark	and	-	mark	
3. 性能要求 PERF ^{项目 ITEM}		TEST CONDI	TTONS		要求 REQUIREM	ENT	
3.1 电气性能 ELETRIC							
3.1.1 3.1.1 接触电阻 CONTACT RESISTANCE	AL PERFORMANCE: 开关处于接通状态, 线性毫欧计测量端子 The switch to be m resistance be mea terminals with mi instrument or hig more-ohm meter.	^z 间的电阻 ade in ″on″ sured betwo cro-resista	state and een the tw ance test	the	50mΩ max		
3.1.2 绝缘电阻 INSULATION RESISTANCE	触点间的绝缘和功前 约500V的直流电压放 关的两触点间和开关 的导电件应连接在一 行测量 INSULATION RESIST. OPERATIONAL INSUL A d.c. voltage of applied between th pole of a switch differentpoles of connected together, the mea	^{協加在处于)} 送的不同极之 一起。施加电 ANCE BETWEN ATION: approxima he open cor and between which all	之间,相同极 4压1 分钟后 EN CONTACT tely 500V ntacts of o n the the parts	&性 手进 AND is each is	100MΩ min		

	市戴尔电子有公司	规	格	书	编号 No.	
	G DAIER ELECTRON CO., LTD	SPEC	CIFICAT	ION	版本号 SERSION	AO
产品名称 SERIES	船形开关 ROCKER SW	WITCH	产品型号	· TYPE	KCD1-202-1	
日期 DATE	2017.1.14		页码 P4	AGE	3 / 8	
		TDOT 00				
项目 ITEM	测试条件	TEST CO	NDITIONS)	要求 REQUIREM	ENT
	after the voltag	ge is app	lied for	1 min.		
3.1.3 介电强度 DIELECTRIC STRENGTH	 触点间和各极间的处于断开状态的开同极之间,应能承50或60赫兹的1500现象。 DIELECTRIC STREMBETWEEN DIFFERENT POLES: A voltage of subswith a frequency value of 1500v i between the operdifferent poles. 加强绝缘间的介电基本为正弦波形的为3000伏的电压施的易接触外表面的件之间5秒钟应无可DIELECTRIC STREMINSULATION: A voltage of subshaving a frequenthe value of 3000 between and a metaccessible surfate 	DIELECTRIC STRENGTH BETWEEN CONTACTS AND BETWEEN DIFFERENT POLES: A voltage of substantially sine wave form, with a frequency of 50Hz or 60Hz and the value of 1500v is applied for 5 Seconds between the open contacts and the different poles. 加强绝缘间的介电强度: 基本为正弦波形的、频率为50或60赫兹、数值 为3000伏的电压施加在导电部件和覆在开关 的易接触外表面的金属箔及易接触的金属部 件之间5秒钟应无击穿或闪络现象发生。 DIELECTRIC STRENGH BETWEEN REINFORE		无击穿或闪络现 No flashover of Breakdown occur	-	
3.1.4 开关的发热 HEATING	 parts. 开关首先在无电流通过的情况下,作20个操作循环,然后将操作件停留在最不利的"接通"位置,开关通以电流,其值为电阻性负载最大额定电流的1.06 倍,试验电流至少维持一小时或维持到端子温度稳定。当每隔5 分钟读取连续的三个读数变化不大于±2℃,即认为温度稳定.测得的温升不应超过45K. First of all, the switches are subjected to 20 operating cycles with no current flowing. Then the actuating member is left in the most unfavorable "ON" position and the switches are loaded with a current of 1.06 times the maximum rated current for resistive load. The current is maintained at least for one hour or until a 				端子温升不超过451 操作件温度不超过: 金属操作件温度不超过: 金属操作件温度不适 60℃。 The temperature r the terminals sha exceed 45K. The temperature of actuating members not exceed 60℃;	105℃; 超过 rise at all not

YUEQING DAI	成尔电子有公司 ER ELECTRON CO.,LTD规格书 SPECIFICATIONB形开关 ROCKER SWITCH产品型号 TYPE2017.1.14页码 PAGE	编号 No. 版本号 SERSION A0 KCD1-202-1 4/8
项目 ITEM	测试条件 TEST CONDITIONS	要求 REQUIREMENT
	constant temperature at the terminal is attained. A temperature is considered to be constant when three successive readings obtaine at every 5min of which value indicate no chang greater than $\pm 2^{\circ}$ C.	
3.2 材料性能 MATERIAI	PERFORMANCE:	
3.2.1 开关材料的阻燃性: 灼热丝试验 RESISTANCE TO FIRE: GLOW WIRE TEST	保持、支持带电导体在其相对位置的非金属 零件应能承受850℃的灼热丝试验,其他零 件应能承受650℃的灼热丝试验。 For nonmetal parts which are in contact with, maintain or retain the live parts in position should be carried out the glow wire test at the 850℃. The other parts should be carried out the glow wire test at the 650℃.	5无火焰产生或离开灼热 丝后,火焰30秒内熄灭 No flame or the flame fire out in 30S when glow wire leave away.
3.2.2 开关材料的耐热 性: 球压试验 RESISTANCE TO HEAT: BALL PRESSURE TEST	保持、支持带电导体在其相对位置的非金属 零件应能承受125℃的球压试验,其他零件 应能承受75℃的球压试验。 For nonmetal parts which are in contact with, maintain or retain the live parts in position electrical should be carried out the ball pressure test at the 125℃. The other parts should be carried out the ball pressure test at the 75℃.	压痕直径≪2mm The diameter of the impassion shall not exceed 2 mm.
3.2.3 开关材料的耐漏电起 痕特性 RESISTANCE TO TRACKING	在不同极的导电部件之间、导电部件与接地 金属部件之间、导电部件与易接触的表面之 间有特定的爬电路径的所有非金属部件应 能通过175V的耐漏电起痕指数测试。 All non-metal parts for which a creep age path is specified between live parts of different polarity,	无击穿或闪络现象 No flashover or breakdown shall occur between live parts and earthed metal parts and between the live parts and accessible surfaces of a switch shall be carried out the proof tracking test of 175V.
3.3 机械性能 MECHANI	CAL PERFORMANCE:	

Ø		尔电子有公司 R ELECTRON CO.,LTD	规 SPEC	格 IFICA	•	编号 No. 版本号 SERSION	AO
产品名称	SERIES 船	形开关 ROCKER SW			号 TYPE	KCD1-202-1	
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项目	ITEM	测试条件	TEST CON	DITION	IS	要求 REQUIREM	ENT
3.3.1 机 MECHANIC STRENGTH	CAL I:	将弹簧冲击器的积 0.04Nm,用弹簧冲 驱动元件进行冲音 置冲击三次。 The spring- ope apparatus is ca energy of 0.5Nm- to all accessib actuating membe For all such su applied to every be weak.First a applied for1 mi actuating numbe 30N for 1 min is member.	由器对可能 去,对每一 erated imp alibrated =0.04Nm B1 ole surfaces rs by the f urfaces th y point th a pull of n to try f r and seco applied t	由及的表 个认为 act-tes to deli ows are es, inc est app ree blc at is li 15N sha to pull ondly a c all ac	面包括 尊弱的位 st ver an applied eluding aratus. ows are kely to all be off the push of tuating	试验后不应有影响 安全和使用的损伤。 There shall be no damages to switch safety and usage	,)]
3.3.2 操 OPERATII PERFORMA	NG	member. 用尽可能慢的速度按动开关的按钮。 To operate the actuating member of a switch as slowly as possible.			开关的动触点只能 在"接通"和"断开" 置,当按钮释放时, 钮会自动移动到或 在动触点对应的位 The moving contact of a switch can of to rest only in to "on" and "off" position. When the actuating member released, it shat move automatical stay in the positi corresponding to of the moving cont	的,停置。 cts come the is lly or that	
装强度	片端子的安 GTH OF TABS:	 将64N的轴向压力和58N的轴向拉力依次无 冲击地作用在开关的插片上。 A axial push of 64N and a axial pull of 58N shall be applied in turn to the tabs of a switch without jerks. 开关的插片不应出显的位移和损伤。 No significant displacement or damage shall occomplete the state of the state					

	次电子有公司	」格书 CIFICATION	编号 No. 版本号 SERSION AO)
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项目ITEM	测试条件 TEST C	ONDITIONS	要求 REQUIREMENT	
3.4.1 电气寿命 ELECTI	RICAL LIFE			
3.4.1.1 提高电压加速测试 INCREASE-VOLTAGE AT ACCELERATED SPEED:	测试电压APPLIED VOLTAG 1.15倍额定电压1.15 tim voltage 测试电压APPLIED VOLTAG	es of rated		
	测试电流APPLIED CURREN	T:6.9A	1、所有的动作功能正	
	常。 2、通以额定电流,在周 围温度为25±10℃的条 件下进行温升测试,端 子温升不应超过55K。 3、能够承受3.1.3条要 求的75%的介电强度测 试。 1.Allactions			
3.4.1.2	测试电压APPLIED VOLTAG		<pre>function as normal; 2. Thetemperature</pre>	
慢速测试 SLOW SPEED TEST:	额定电压rated voltage2	rise test at the		
	测试电流APPLIED CURRENT: 6A 功率因数: 0.95±0.05 操作循环数: THE NUMBER OF OPRATING CYCLE:100 环境温度AMBIENT TEMPERATURE: 25±10℃ 操作速率OPERATING RATE: 30次/分钟 30 operations per minute 操作速度OPERATING SPEED: 大约20mm/s 的线性速度Approximately 20mm/sfor lineal actions			
3.4.1.3	测试电压APPLIED VOLTAG		test which the test voltage shall be 75%	
加速测试 ACCELERATED SPEED	额定电压rated voltage: 测试电流APPLIED CURREN		the corresponding	
TEST:	test voltage specifie in clause 3.1.3.	9d		

	成尔电子有公司	规	格	书	编号 No.	
	R ELECTRON CO., LTD	SPEC	CIFICA	TION	版本号 SERSION	AO
产品名称 SERIES 别	品形开关 ROCKER SW	形开关 ROCKER SWITCH 产品型号 TYPE			KCD1-202-1	
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项目 ITEM 测试条件 TEST CONDITIONS					要求 REQUIREM	ENT
	操作速度OPERAT 大约80mm/s 的线 80mm/sfor linea	性速度Ap	proxima	tely		
3.5 焊接性能SOLDERIN	G PERFORMANCE:					
3.5.1可焊性试验 SOLDERING TEST:	端子顶部被浸入焊锡池中2mm深,温度230±5℃,时间3秒。 The tip of the terminal shall be dipped 2mm in the bath at temperature 230±5℃ for 3 sec.			 浸入的部分75%以上表 面将被锡覆盖。 A new uniform coating of solder shall cover a minimum of 75% of the surface being immersed. 		
3.5.2 耐焊接热试验 RESISTANCE TO SOLDERING HEAT TEST:	焊锡炉的方法: 焊锡炉的温度控制的时间5±0.5秒, SOLDER BATH MOT Solder temperation Immersion time the thickness of 手工焊接方法: 手工焊接的时间5±0. 异常力。 SOLDERING IRON Control temperation time However excession applied to the	基板的厚 THOD: cure 260℃ 5±0.5sec of PCB 1. 温度控制 5秒,但不 MOTHOD: ature 350 me 5±0.5s ve pressu	度为1.6 C±5℃; 6mm. 们在350℃ 能在端子 ℃±5℃ ec; .re shal	nm。 C±5℃, 圣上施加 ;	本体无变形,能满 械、电气性能要求 Without distorti case or excessiv looseness of terminals, Electrical and mechanical characteristics shall be satisfi	。 on of e

	戴尔电子有公司 AIER ELECTRON CO.,LTD 船形开关 ROCKER SWIT 2017.1.14	规 SPECI	产品型	•	编号 No. 版本号 SERSION KCD1-202-1 8/8	AO	
项目 ITEM	测试条件 T	EST CONI		1	要求 REQUIREM	ENT	
3.6.1 低温试验 COLD TEST	在(-25±3)℃的环境 常环境中1小时后进行 Putting at (-25±3) after keeping in no hours.	亍测试。)℃ for 1	6 hour	s. Test	 接触电阻≤100 Contact resistance: 50mΩ max 2、绝缘电阻≥100M Insulation resista 100MΩ Min 3、介电强度 Dielectric streng 3.1触点间和各极间 	Ω mce: th	
3.6.2 高温试验 DRY HEAT TEST	在(85±2)℃环境中放置72小时,再放在正常 环境中1小时后进行测试。 Putting at (85±2)℃ for 72 hours. Test after keeping in normal condition for 1 hour.				介电强度:500V , 0.5mA,1分钟无击穿 闪络现象。 Dielectric streng between contacts between different poles:500V , 0.5	th and mA,1	
3.6.3 潮湿试验 DAMP HEAT, STEADY STATE	 在温度为(40±2)℃,相对湿度为91%~95%RH 的环境中放置96小时,再放在正常环境中1小时后进行测试。 Putting at (40 ± 2) ℃, 91% ~ 95%RH for 96hours,Test after keeping in normal condition for 1 hour. 			竟中1小 95%RH	minutes, No flash or breakdown shal occur. 3.2加强绝缘间的介 强度: 1500V, 0.5m 分钟无击穿或闪络现 象。Dielectric str	1 电 A,1 见 ength	
3.6.4 温度交变试验 TEMPERATURE CYCLING TEST	在如图示之环境中, 行 环境中, 30 分钟后进 In FIG. For 5 cycle normal condition fo <u>+85℃</u> <u>-25℃</u> 2 1	挂行测试。 es, test a	after] utes.	kept in cycle	between reinforce insulation: 1500V , 0.5mA,1 minutes, No		
3.7 ROHS	ROHS 指令 ROHS Direct	tive			compliant		

	21.3±0.3 15 1.8 1.8 1.8 1.8 1.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
株注 残 >0~6 ±0.05 未注 佐 >6~20 ±0.1 公売 尺寸 1 >20~50 ±0.2 尺寸 寸 >100 ±0.4 皮 计 1	$\begin{array}{c} 15\pm0.2\\ 5.8\\ \hline \end{array}$
名称 Product: ^{換具} 船形开关 Rocker Switch	主要技术参数、体 The Main Thchnol 项目 Item 电路图 Circuit Diagram 额定负荷 The rated load 绝缘电阻 Insulated resistance 被触电阻 Contact resistance 电器矛 for Endurance 环境温度 Inwironment Temperature
型号 PN: KCD1-202-1 模具 单位: mm 比例: FIT 编号 版本: A 视角: @	主要技术参数、性能 The Main Thchnology Performance The Main Thchnology Performance Gircuit Diagram 如此 物定负荷 1280 AC 6A The rated load 1280 AC 10A 绝缘电阻 Insulated resistance ≥100MΩ Gontact resistance AC1500V/min 电器寿命 Endurance 10000 Cycles 环境温度 T85

