

深圳市首韩科技有限公司

SHENZHEN SHOUHAN TECHNOLOGYCO.,LTD Tel: 0755-27597601 Fax: 0755-27597491

承 认 书

SPECIFICATION FOR APPROVAL

客	户 Customer:	
产	品名称 Project:	拨动开关
规	格型号 Part No:	MST23D19G2
	贵公司承认印	Approalsignatures
1	料号/Part No.	签 章/Signatures
	17 7/1 alt No.	

日期 Date:

拟制/Drawn	李春风	光蓝科技有图
审核/Check	刘学	AND REAL PROPERTY.
批准/Approved	罗孝金	工程专用草

;22.1		Page	2/8
沐り	市首韩科有限公司	Version	A/0
MODEL		Date	2015. 03. 31

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:有触觉反应的操作

Type of actuating: Tactile feedback.

2.4 开关结构: 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 12V, 50mA (有效值)

Ratings: 12V DC, 50mA (effective value)

3、 电气性能:

ELECTRICAL SPECIFICATION

NO.	项目	试验条件	要求	
	ITEM	TEST CONDITIONS	REQUIREMENTS	
3. 1	接触电阻 Contact Resistance	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Applying a static load of 2 times operating force to the center of the stem, measurements shall be made by 5V DC 10mA or more than 1KHZ AC small-current contact resistance meter.	≤100mΩ	
3. 2	绝缘电阻 Insulation Resistance	在端子之间施加DC 100V /1min的条件下,测量端子之间底座、盖板的电阻值 Measurement shall be made following application of 100V DC potential, across terminals, and across terminals and cover, for one minute.	≥100MΩ	
3. 3	介质耐压	在端子之间施加250V AC(50HZ或60HZ)/1min	无击穿、无飞弧	
	Dielectric	250V AC (50HZ or 60HZ) shall be applied	There should be no breakdown	
	voltage proof	across terminals, for one minute.	and flashover	

		<u>ੇਯ</u> 1	川→→ ++ イ \ <i>→</i> 70 ハ =1	Page	3/8
			川市首韩科有限公司	Version	A/0
		MODEL		Date	2015. 03. 31
NO.	项 IT		试验条件 TEST CONDITIONS	RE	要求 QUIREMENTS
3. 4	触点抖动	カΒounce	按照正常使用时的力度轻按手柄中心(每秒3~4次),在导通和断开过程中测试开关抖动Lightly striking the center of the stem at a rate encountered in normal use (3 to 4 times per second), and bounce shall be tested at "ON" and "OFF" ### Switch 10V DC THE TOK! E TOFF"	ON-3msec.ma	
	L械性能: ECHANICAL SI	PECIFICATIO	NV		
4. 1	按 Operatin	力	开关垂直于操作方向放置,在开关驱动件顶端中心逐渐施力,测量开关导通所需的最大力度 Placing the switch such that the direction of switch operation is vertical and then gradually increasing the load applied to the center of the stem, the maximum load required for the switch to come to a stop shall be measured	refer to ch 按力: 200± Operating F	
4. 2	最大 Full 1		开关垂直于操作方向放置,以一个等于2倍按力的静负荷施加在开关驱动件顶端中心,测量顶端移动的距离。 Placing the switch such that the direction of switch operation is vertical and then applying static load of 2times operating force to the center of the stem; the travel distance for the switch to come to a stop shall be measured.	2±0.1mm	

		ेफर -	LIII → → ±+ ≤\	Page	4/8
		(米)	圳市首韩科有限公司	Version	A/0
MODEL		MODEL		Date	2015. 03. 31
NO.	项 IT	百 EM	试验条件 TEST CONDITIONS	RE	要求 QUIREMENTS
4. 3	回号 Return	单力 Force	开关垂直于操作方向放置,在开关驱动件顶端中心下降至全行程后,测量顶端向自由位置转换的力度。 The sample switch is installed such that the direction of switch operation is vertical and upon depressing the stem in its center to the whole travel distance, the force of the stem to return to its free position shall be measured.	/	
4. 4		强度 trength	开关垂直于操作方向放置,从操作方向向驱动件施加30N的静负荷持续1min。 Placing the switch such that the direction of switch operation is vertical, and then a static load of 30N shall be applied in the direction of stem operation for a period of 1 min.	/	
4. 5	手柄拔出强度 Stem Strength		开关垂直于操作方向放置,反方向实施最大操作力,并测量手柄的行程范围。 Placing the switch such that the direction of switch operation is vertical, and then the maximum force to withstand a pull applied opposite to the direction of stem operation shall be measured.	20N. min.	
4.6	l.6 可焊性Solderability		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	Except for	层应均匀覆盖90%以上 the edge, the ould cover a

		;≅-	删古为群约有阳公司	Page	5/8
	_	/木·	圳市首韩科有限公司 	Version	A/0
		MODEL		Date	2015. 03. 31
	及限电气性能:	SPECIFICA	TION		
NO.	项 E ITE		试验条件 TEST CONDITIONS	RE	要求 QUIREMENTS
5. 1	低温》 Resistance tempera	e to low	样品应按照以下实验条件进行测试,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: Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made: (1) 温度: -30±2℃ Temperature: -30±2℃ (2) 时间: 96h Time: 96h		
5. 2	高温测试 Heat resistance 温度周期性测试 Change of temperature		temperature and humidity conditions for 1 h before measurements are made: (1) 温度: 80±2℃ temperature:80±2℃ (2) 时间: 96h time: 96h 项目3, 4. 1, 4. 2, 4.		sistance: ≤200mΩ
5. 3			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. +65±2℃	TOGIII	0, 1. 1, 1. 2, 1. 0

			ᆔᆂᆇᄨᅅᆂᇛᇧᆿ	Page	6/8
		沐	圳市首韩科有限公司	Version	A/0
MODEL		MODEL		Date	2015. 03. 31
NO.	项目 ITEM		试验条件 TEST CONDITIONS	RE	要求 QUIREMENTS
5. 4	湿温 Moisture 1	测试 cesistance	样品应按照以下实验条件进行测试,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: Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made: (1) 温度: 60±2℃ temperature: 60±2℃ (2) 相对湿度: 90%~95% relative humidity:90% to 95% (3) 时间: 96h time: 96h	接触电阻: ≤200mΩ	
5.5		试验 cation tance	样品应按照以下实验条件进行测试,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: Following the test set forth below the sample shall be left in normal temperature and humidity conditions for 1 h before measurements are made: (1) H2S气体浓度: 3ppm±1ppm H2S gas concentration: 3ppm±1ppm (2) 时间: 72h Time: 72h (3) 温度: 40±2℃(90~95%RH) temperature: 40±2℃(90~95%RH)	项目:	sistance: ≤200mΩ 3, 4. 1, 4. 2, 4. 3 3, 4. 1, 4. 2, 4. 3
5.6	盐雾试验 Salt Mist		在以下设定条件下进行测量: The switch 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 实验后的盐沉积物后水冲掉 After test, salt deposit shall be removed by running water.		有腐蚀斑点 ple corrosion shall ped in metal part.

		; ⊠ -	ᆒᆂᆇᆄᇵᆂᇛᆢᆿ	Page	7/8
		沐	圳市首韩科有限公司	Version	A/0
		MODEL		Date	2015. 03. 31
	限机械性能: DURANCE SPE	CIFICATION			
NO.	项 IT	目 EM	试验条件 TEST CONDITIONS	REG	要求 QUIREMENTS
6. 1	工作寿命 Operation]	life	根据下面的测试要求进行测试: Measurement shall be made following the test set forth below: (1) DC 12V, 50mA带负载 DC 12V, 50 mA resistive load (2) 按动速率: 1次/秒 Rate of operation: 1 times/s (3) 按力: / Operating Force: / (4) 平均无故障寿命/Average fault-free life:20000次	接触电阻《2 resistance》 触点弹力《1 Contact bo 按力: 初值的 Operating F initial val 项目3,4.1,4 Item 3,4.1,	0ms unce≤10ms 勺±30% force: ue±30% . 2, 4. 3
6. 2	振动Vibrat	ion	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	项目3, 4. 1, 4 Item 3, 4. 1,	
	接条件: LDERING CON	DITIONS:			
7. 1	手工焊接 Hand solder		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 condition (1) Soldering temperature: 350℃ Max. (2) Continuous soldering time: 3 s Max.	ons:	

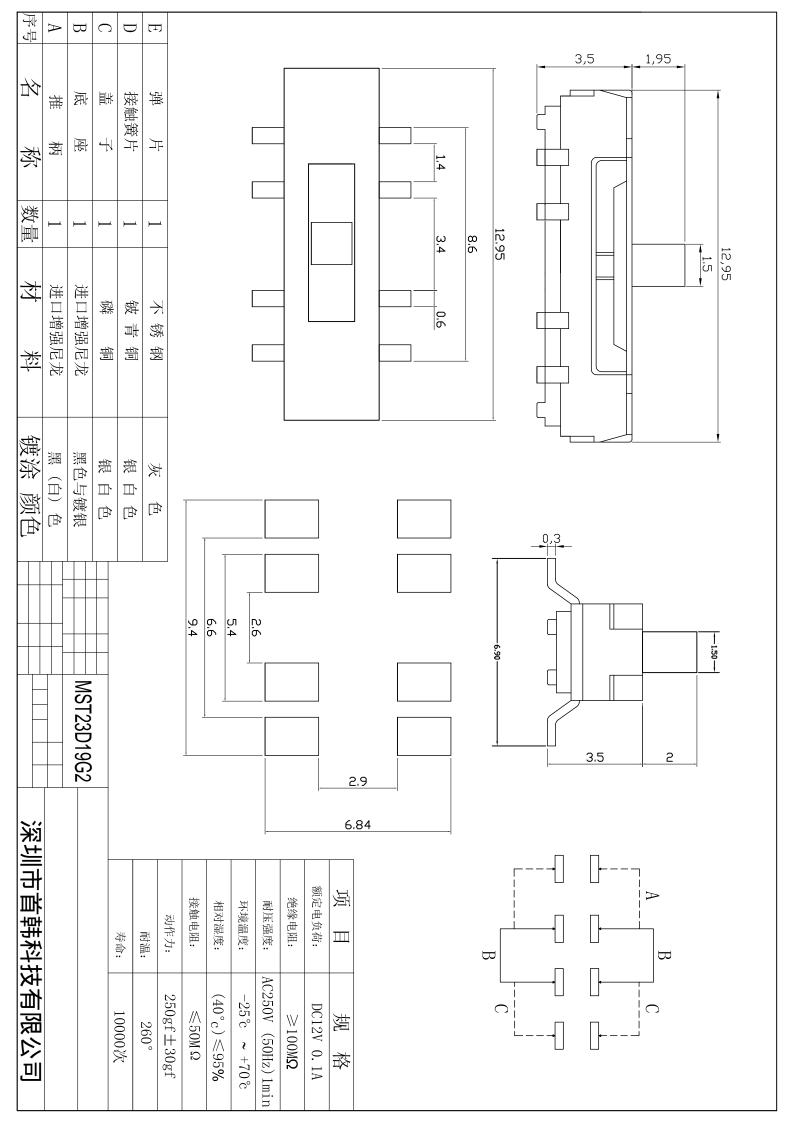
J

	深均		-III -1 -⇒	ᆂ	=	Page	8/8
			川山岸	圳市首韩科有限公司		Version	A/0
MODEL						Date	2015. 03. 31
NO.	项 IT	目 EM			件 ITIONS		
7. 2	自动焊接 Automatic s	soldering	In case the control of the case the control of the case		70°C 40°C	40 ~ 80 sec 40 ~ 80 sec mes (max) C, 1 ~ 4 sec	c, 2 times (max) 260°C max 240°C

- 8、 Other precautions其他注意事项
- 8.1 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.

- 8.2 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.
- 8.3 进行焊接过程中,不可以用溶剂或类似品清洗开关
 - Following the soldering process, do not try to clean the switch with a solvent or the like.
- 8.4 防止助焊剂从开关的顶端渗入
 - Safeguard the switch assembly against flux penetration from its topside.
- 8.5 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.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Toggle Switches category:

Click to view products by SHOU manufacturer:

Other Similar products are found below:

A19HV 8A1-C-222 60012L 6006L 6663 7101MD9V30GE 7101SPDV30BE 7103SDV30BE 7105D 7108P3YAV2BE 71YY50282

7201MD9AVBE 7301K38 7306K36 7310K36 7314K36 7506K4 7592K6 7691K14 7700K1 8396K108 8824K14 8828K13 G3VX PS83
121G A101MD9AB04 A101SD9AB04 A101SDCQ04 A103SD9AQ04 A107TZB04 A123P32YZQ A123S1YZG A127S1YCQ 1-1825192
0 A131S1YZQ A201SCWZB04 A207SYCB04 A208J61ZQ0004 A221K12KAG A221S1YZQ A221T1TCQ A232K12KZQ A232M1YCQ

A323S1CWZQ A423S1YZQ 12149A-3V 12156AX408 12147AGKX679 12149AD2G0383VX408 12246X778