		記 Te sheet	書			
客户名称 Ci	istomer:					
品 名 PAR	Γ NAME:					
型号 PART]	NUMBER:	6*6中二肒]			
Design	Check	Review	Approval			
贵.	公司承认印 Ap	proal slgn	atures			
Approva	Approval/Date Remark					
Send us a copy of reference, t	hank you!	日期 Date:				

			Page	1/8
	SF	PECIFICATION	Version	A/0
	MODEL	LBI1	Date	
、 概述				
GENERAL				
.1 适用范围				
APPLICATION				
此规格书适用	目于机械式轻触开	关的相关要求		
This specif	ication is app	olied to the requirements for TACTILE SW	ITCH (MECHANIC	AL CONTACT)
1.2 工作温度范围				
Operating T	emperature Ran	nge		
$-20^{\circ}C \sim 70^{\circ}C$	(在标准大气压、	标准湿度条件下)		
$-20^{\circ}\mathrm{C}\sim70^{\circ}\mathrm{C}$	(Normal humidi	ty, normal air pressure)		
1.3 贮藏温度范围		<u> </u>		
Storage Tem	perature Range	9		
-30°C~80°C	(在标准大气压、	标准湿度条件下)		
-30°C~80°C	(Normal humid	lity, normal air pressure)		
L.4 测试条件				
Test Condi	tions			
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:		
		ied, tests and measurement shall be made	e in	
	ing standard c			
		······5℃~35℃		
		······5℃~35℃		
		相对湿度25%~85%		
	-	\cdots relative humidity 25% \sim 85%		
		86KPa~106Kpa		
	-	86Kpa~106Kpa		
		应该在以下的条件下进行 :		
		the judgment, tests shall be conducted		
	lowing conditi			
		20°C ±2°C		
-	e••••••			
	umidity	······65%±5% ·····86KPa∼106Kpa		

		CI		Page	2/8				
		2	PECIFICATION	Version	A/0				
		MODEL	LBI1	Date					
2、 详细	说明								
Deta	ailed speci	fication							
	.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.								
	71e and dim 作形式: 有魚		all conform to the assemble drawings. WE						
			le feedback.						
		-	具体的触点结构在装配图中已绘出);						
			pole, 1 throw						
(D	etails of	contact ar	rangement are given in the assembly drawir	ngs.)					
2.5 开美	关工作额定值	直: DC 12V,	50mA(有效值)						
Ra	tings: 12V	DC, 50mA	(effective value)						
3、 电	气性能:								
EL	ECTRICAL S	PECIFICATI	ON						
NO.	项 IT		试验条件 TEST CONDITIONS	要求 REQUIREMENTS					
3. 1	接触 Contact R		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.	<100m Ω					
3. 2	绝缘 Insul Resis	ation	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 Diele voltage	ctric	在端子之间施加250V AC(50HZ或60HZ)/1min 250V AC (50HZ or 60HZ) shall be applied across terminals, for one minute.	无击穿、无飞引 There should and flashoven	be no breakdown				

		C		Page	3/8
		3.	PECIFICATION	Version	A/0
		MODEL	LBI1	Date	
NO.	项 IT		试验条件 TEST CONDITIONS	RE	要求 QUIREMENTS
3.4	触点抖动	力Bounce	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" TF关 Switch Oscillograph "导通"""""""""""""""""""""""""""""""""""""""	ON-3msec.ma OFF-8msec.n	
	.械性能: ECHANICAL S	SPECIFICATI	ON		
4.1	按 Operatir		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 cl 按力: 250± Operating 1	
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.	0.25±0.1m	n

				Page	4/8
		5	PECIFICATION	Version	A/0
		MODEL	LBI1	Date	
NO.		目 EM	试验条件 TEST CONDITIONS	REG	要求 QUIREMENTS
4.3		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.	refer to chart 3 回弾力 Return Force:50gf min	
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.	无机械和电气损坏 There shall be no sign of damage mechanically and electrically.	
4.5	St	出强度 em ength	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	可焊性Solo	derability	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	除边缘外涂层应均匀覆盖90% Except for the edge, the coating should cover a minimum 90%	

		C		Page	5/8
		2	PECIFICATION	Version	A/0
		MODEL	LBI1	Date	
	及限电气性能				
E	NVIRONMENTA				
NO.	项 IT		试验条件 TEST CONDITIONS	要求 REQUIREMENTS	
5.1	低温 Resistanc temper	ce 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 Heat res		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: 80±2℃ temperature:80±2℃ (2) 时间: 96h time: 96h		
5.3	温度周其 Chang temper	ge 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. +65±2℃		

		C		Page	6/8
		2	PECIFICATION	Version	A/0
		MODEL	LBI1	Date	
NO.	项 IT	目 EM	试验条件 TEST CONDITIONS	RE	要求 QUIREMENTS
5.4	湿温 Moisture 1	测试 resistance	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	硫化 Sulfun resis	ration	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)	- Contact resistance: 3 项目3,4.1,4.2,4 Item 3,4.1,4.2,4	, 4. 1, 4. 2, 4. 3
5.6		试验 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 ole corrosion ecognized in metal

				Page	7/8
		S	PECIFICATION	Version	A/0
		MODEL	LBI1	Date	
	限机械性能: DURANCE SPE	CIFICATIO	N		
N0.	项 IT		试验条件 TEST CONDITIONS		要求 IREMENTS
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 (1) 按动速率: 2次/秒 Rate of operation: 2 times/s (3) 按力: 按力的1.5倍 (4) Operating Force: Operating Force 1.5倍 (5) 平均无故障寿命: Average fault-free life 30,000次 	接触电阻≤200 resistance≤2 触点弹力≤10m Contact bour 按力: 初值的± Operating For initial value 项目3,4.1,4.2 Item 3,4.1,4.	$200m \Omega$ as ace $\leq 10ms$ $\pm 30\%$ acce: $\pm 30\%$ 2, 4.3
6.2	振动Vibrat	ion	<pre>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) 测试时间: 每次2hours. Duration: Each 2hours.</pre>	项目3, 4. 1, 4. 2, 4. 3 Item 3, 4. 1, 4. 2, 4. 3	
	接条件: LDERING CON				
	手工焊接 Hand solde		请按以下条件进行焊接: (1) 焊锡温度: ≤350℃ (2) 连续焊接时间: ≤5 s Please practice according to below condit (1) Soldering temperature: 350℃ Max. (2) Continuous soldering time: 5 s Max.	ions:	



