东莞市宏泽电子有限公司 確認書 APPROVAL SHEET

TO: We are and drawingsFor Please return signatures.	r your appro	oval.	herewith our s		
COMMODITY:		摇杆電位器			
MODEL NU	MODEL NUMBER:		3D16A1N-B10K- 267 ± 20% (圆孔带开关)		
ISSUE DATE:		2018-03-15 客户料号:			
APPROVED DATE:					
	APPROV	ED SIGNATURE	ES		
	批准	審核	制定		

dimension 1.2 Operating -10 1.3 Conservin -20 1.4 Test condi Ordinar Ordinar	I dimensions ance with the outline of drawing. The temperature range $^{\circ}$ C $^{\circ}$ +75 $^{\circ}$ C ag temperature range $^{\circ}$ C $^{\circ}$ +85 $^{\circ}$ C attions by temperature (5~35 $^{\circ}$ C by humidity (45~85 $^{\circ}$ C)	1.2 使用温度范围 —10℃~+ 1.3 保存温度范围 —20℃~+ 1.4 测试条件 常温 (温 常湿 (湿			
(86~100	ry atmospheric pres 6kPa)	suite			
2. Mechanical	l Characteristics	2. 机械特性	2. 机械特性		
	Item 项目	Measuring condition 测试条件	Specifications 规格		
Rotation 2.1 operation 回转操作		The rotation Angle of machine 机械回转角度 In effect angle 印刷电阻有效角度	60±3°MIN ■23±2°		
	Middle tapping angle 中心抽头角度	Middle tapping angle in resistance 印刷电阻中间银层度数	□5±2° ■9±2° □10±2° □0		
2.2	Operating force 动作力	Measure the slip-off torque of the detent. 测试脱离中心点时的力矩	200±80gf.cm		
2.3	3 开关行程	按压开关	0.3 ± 0.1 mm		
3. Electrical characteristics 3. 电气特性					
		uring condition 则试条件	Specifications 规格		
3.1 Rating Power rating(70℃) 额定值 70℃时额定功率 W		T .	0.0125W		
	Max operating voltage (virtual value of direct current or alternating current) 极限电压(直流或交流峰有效值)V		50V		
	Insulating voltage alternating current) 绝缘电压(直流或		300V		

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	Item	Measuring condition	Specifications
	项目	测试条件	规格
3.2	Resistance	Measurement shall be made at 1, 3 terminals of	
	error	two resistance)	
		在两联电阻体的1、3端测试	
2.2	误差		6.70 / P
3.3	Medium	Measurement shall be made at 1 , 2 terminals	≤5% R 总
	value	and 2. 3 terminals as stilling station	
	中间值	静止状态时在1、2端和2、3端测试	
3.4	Residual	Measurement shall be made separately when	
	resistance	potentiometers rotate at 1 terminal and 3	
	4500 4570	terminal.	■ ≤ 5% R 总
3.5	残留电阻 Total	电位器旋至 1 与 3 端时分别测试	□10V 0 +100/
3.3	Resistance	Measurement shall be made at 1, 3 terminals of resistance.	
	error	在电阻体的 1、3 端测试	■ 10K Ω ±20%
	总阻误差	111 中 12 11 11 2 2 2 2 2 2 2 2 2 2 2 2	
3.6	Slider	The residual resistance with the shaft (lever)	≤68mV
	noise	placed at the end of terminal 1, shall be	Com
		measured between the terminals 1 and 2. Next	
		with the shaft (lever) placed at the end of	
	滑动噪声	terminal 3, the resistance shall be measured	
		between the terminals 2 and 3. If there are	
		tapped terminals, the shaft (lever) shall be	
		turned (moved) and the resulting minimum	
		resistance between the taped terminal and the terminal 2 shall be measured.	
		terminar 2 shari be measured.	
		$ \ominus $ 2 $ $ $ $ $ $	
		指示器	
		///\/\fr	
		按照加团的测学中吸测学 以每八块。 7 图	
		按照如图的测试电路测试,以每分钟 2~5 圈	
		的速度转动摆杆。	
3.7	Insulation	Measure to Apply AC250V. (Between terminal	$100 \mathrm{M}\Omega$ min.
3.1	resistance	for reinforcing and the other terminals)	
	绝缘电阻	AC250V 测试	不小于 100MΩ
3.8	Withstand	Apply A.C250V for 1min. (Between terminal	No damage. Arc and
	voltage	for reinforcing and the other terminals)	dielectric breakdown.
	耐电压	A.C250V1 分钟	无损伤、电弧和电故障

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4. I	Endurance	4. 耐久特性	
	Item 项目	Measuring condition 测试条件	Specifications 规格
4.1	Heat resistance 耐热特性	Temperature $\cdots \cdot $	Item 2.2 3.2 3.3 3.4 3.5 The same as the initial spec. 项目: 2.2 3.2 3.3 3.4 3.5 同初始规格
4.2	Moisture resistance 耐湿特性	Temperature \cdots 40 $\pm 2^{\circ}$ C Humidity \cdots 90~95%Rh Time \cdots 96 ± 4 hours After that , leave in ordinary temp and humidity for an hour. Then measure. 温度 \cdots 40 $\pm 2^{\circ}$ C 湿度 \cdots 90~95%Rh 时间 \cdots 96 ± 4 小时 然后放置在常温和湿度下一个小时再测试。	The same as above.
4.3	Low temperature resistance 耐寒特性	Temperature ····· -20±3℃ Time ····· 16±2 hours After that ,leave in ordinary temp and humidity for an hour. Then measure. 温度 ····· -20±3℃ 时间····· 16±2 小时 然后放置在常温和湿度下一个小时再测试。	The same as above. 同上
4.4	H ₂ S resistance 耐硫化特 性	Density \cdots \cdots 3 ± 1 ppm. Temperature \cdots \cdots 40 ± 2 $^{\circ}$ C Humidity \cdots \cdots 80% Rh Time \cdots \cdots 24 ± 2 hours After that , leave in ordinary temp and humidity for an hour. Then measure. 浓度 \cdots \cdots 3 ± 1 ppm. 温度 \cdots \cdots 40 ± 2 $^{\circ}$ C 湿度 \cdots \cdots 0 0 0 0 0 0 0 0 0 0	The same as above. 同上

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	Item Measuring condition		Specifications
项目		测试条件	规格
4.5	Vibration Amplitude · · · · · · · 1.5mm		The same as above.
		Frequency ····· 10~55~10Hz for 1 min	同上
	耐振动特	Vibration directions X.Y.Z (3 directions)	
	性	Time · · · · · · · · · · · · · · · X.Y.Z. each 2 hours	
		振幅·····1.5mm	
		频率 ····· 10~55~10Hz 1 分钟	
		颤动方向 X.Y.Z (3 个方位)	
		时间 · · · · · · · · · · · · · X.Y.Z. 各 2 小时	
4.6	Impact	Acceleration · · · · · · · 735m/s(75G)	There shall not be
	resistance	Time · · · · · · · · · 6ms	visual transformation
	71 VI. 1. 14	Directions ··· ··· · · 6 directions × 3 times	and noticeable wobble
	耐冲击特性	加速度·····735m/s(75G)	of terminal etc
		作用时间 · · · · · · · · · 6ms	无视觉变化和明显的
		方向6 个方位×3 次	端部摆振。
4.7	Operation	Operation times · · · · · 100,000T	Item 2.2 2.3 3.2
	life	Reciprocate 100,000 times at a speed of $30 \sim 45$	
	操作寿命	times reciprocation per minute with no-load in	The same as the
		the ordinary temp and humidity.	initial spec.
			Item 3.5 $\triangle R \leq 25\%R$
		操作次数100,000T	西日 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		在常温、常湿,无负载的情况下,以每分钟往	以日 2.2 2.3 3.2
		复 30~45 次的速度进行 100,000 次	3.3 3.4: 同初始规格
			项目 3.5 △R≤25%R

