100 mm 雙連附馬達滑動式可變電阻器製品規格書

100 mm 2 UNIT WITH MOTOR SLIDE POTENTIOMETERS SPECIFICATIONS

1. 一般事項 General

1.1 適用範圍: 此規範適用于電子機器之可變電阻器.

Application: This specification is applied to potentiometers used for electronic equipment.

1.2 使用溫度範圍 Operating temperature: -10~+70℃

1.3 保存溫度範圍 Storage temperature: -30~+85℃

1.4 試驗狀態: 若無特別規定限制,則以溫度5~35℃,相對濕度45~85%,氣壓860~1060mbar之標準狀態測之.

但對此標準狀態之測定值發生判定疑問或有特別要求則以基準狀態(溫度20±2℃,相對濕度

65 ±5%,氣壓860~1060mbar)為準測定.

Test conditions : the standard test conditions shall be $5{\sim}35\,^{\circ}\mathrm{C}$ in temperature , $45{\sim}85\%\mathrm{RH}$ and $860{\sim}1060\mathrm{mbar}$ in atmospheric , should any doubt arise in judgement ,

tests shall be conducted at $20\pm2^{\circ}$ C, 65 ± 5 %RH and $860\sim1060$ mbar.

2. 構造、尺寸 Construction and dimensions 依組立圖 Refer to attached drawing

3. 電氣性能 Electrical characteristics

NO.	項目	試 驗 條 件	規格		
110.	Item	Test conditions	Specifications		
3–1	全阻抗值 Total resistance	把柄置于端子1或3終端, 測定端子1-3間的阻抗值 Measurement shall be made by the resistance between terminal 1 and 3 with lever setted at terminal 1 or 3.	10KΩ±20%		
3–2	額定電力 Power rating	端子1和3間所能連續負荷之最大電力 Power rating is based on continuous full load operation at the maximum voltage between terminal 1 and terminal 3. 周圍溫度對額定電力影響之曲線如下圖 Power rating vs. ambient temperature shall be denoted on the following graph.	1B taper: 0.5W		
3–3	最高使用電壓 Max operating voltage		350V A.C 50V D.C		

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NO.	項目試驗條件					規格				
110.	Ite	em			Test cond	Specific	ations			
			額定電應	逐 Rated	voltage E=					
			額定電力	カ P: Po	ower rating (
			公稱全陸	阻抗值 R	: Nominal tot	al resistance	(Ω)			
3–4	額定		當額定官	電壓超過	最高使用電壓					
	Rated	voltage	電壓即為	為額定電	壓 •					
			When th	ne rated	voltage excee	eds the maxin	num			
			operating	g voltage	e, the maximu	ım operating				
			-		the rated vol	tage.				
			電壓法測							
					第3端子側開始	台滑動,且端子	位置2、3			
			端子同側							
	抗阻變				-	he resistance l				
3–5	Ta	per				e point. and te	rminal 2			
			and 3 is sa							
			變化特		測定位置	<u>V1-2</u>	<u>V2-3</u>			
	D.1 .		taper	test	point (mm)	V1-3	V1-3	40 6007		
	R1 t		1B		50	<u> </u>		40~60%		
	K2 1	rack	1B	2 - 45 - 6	50	V		40~60%		
	殘留阻抗 Residual resistance				距離的兩末端					
3–6			間的阻抗	.值測定.		1Ω以下 (MAX)				
			The resist	ances at	each end of					
	10010		terminal	1 and 2, t	erminal 2 and					
			施加500	V之直流	電壓,1分鐘後					
	絕緣阻抗 Insulation		測試位	置:端子和	50.外蓋間、端	100MΩ 以上 (MIN)				
3–7			Test volt	tage : 500	OV D.C measu	100M22 以工 (MIN)				
	resist	tance	Test posi	tion : Bet	tween termina					
				Ве	tween termina	l and lever.				
					電壓,測試1分			不可有損傷,電弧,	絕緣,	
	耐 電 壓				加外蓋間、端		破壞			
3–8	Voltage	e proof	11 .	_	A.C measure			Without damage to parts		
			Applied	_	: Between ter	ame.	arcing or breakdown.			
	٠	IV	Ann I L Cos		etween termina					
2 0	導通阻抗 觸控感覺用之印刷碳膜。(把柄和T端子間) 9 Conductive Touch sense track resistance.							100	(MAX)	
3–9	Condi							100以下	(MAX)	
	resist	ance	(between	ievei aiid	terminal T)	CHKD.	DSGD.	DOCUMENT N	[O :	
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NO.	項目	試 驗 條 件	規格							
110.	Item	Test conditions	Specifications							
3–10	Slider noise	端子1-3間印加直流電壓20V(額定電壓20V以下時,則印加此額定電壓),以20mm/秒的移動速度所測定之雜音Applying 20V D.C between the terminals 1 and 3. (When the rated voltage is small than the 20V D.C, it shall be applied the rated voltage.And then the noise shall be measured by the specified speed 20 mm/sec.	60mV以下 (MAX)							
4.機	4.機械性能 Mechanical characteristice									

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4.機	械性能	Mech	anical c	haracter	istice					
NO.	項	目			試 驗 條	件		規格		
110.	Ite	em			Test condit	Specifications				
4–1	把柄移動距離							100±1mm		
7 1	Lever	travel				10021111111				
			移動速度	隻: 20mm/	/秒					
4–2	動作	手力	操作位置	置:把柄前	端5mm處	50gf 以下(MAX)				
' -	Operatin	g force	Traveling	g speed:2	20mm / sec.			Jogi M (WHA)		
			Operatin	g position	:5mm from le	ever end.				
			把柄置于	雨末端,外	·框上面起5m	m位置施加5	Kgf靜	一一寸 1 14 4四 一 白 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	把柄止:	動強度	負荷 10和	少鐘.				不可產生接觸不良和明顯之松動		
4–3	Lever	travel			Kgf shall be		-	Without excessive paly		
	stop st	rength		•	rface of the	n ends in	or poor contact.			
			the direc	ction of le	ver travel fo					
					測定把柄的	中心到螺絲子	L			
	把柄偏心		中心的距							
4-4				_	as far as it	單側0.5mm 以下				
	Lever de	eviation		,	nce from the	0.5mm MAX on each end				
					he mounting	screw hole s	shall			
			be meas	ured at th	e both ends.					
								不可產生破損,滑動不平		
								順,電氣性能需滿足.		
4–5	把柄擠壓		把柄的擠壓方向和引張方向施加10Kgf靜負荷10秒鐘.					Without damage such as bed sliding		
	度		Thrust and tensile static load of 10Kgf shall be applied							
	Thrus		to the p	otentiomet	er in the lev	Electrical characteristics shall				
	tensile	lever		***		. 250 2		be satisfied.		
	,	.]垂直方向施;	ታወ250gf-cm, ፈ	生把柄的前	2 (2×L/25) mm p-p 以下		
1, 6	把柄横		端測定.					T = 押栖長度		
4-6	Displacer	ment of			of 250gf-cn			$2(2 \times L/25)$ mm p-p MAX		
	lever				n perpendicu			L = Length of lever		
	1		and then	the displ	acement shal			DOCHMENTE NO		
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5. 耐久性能 Endurance

NO.	項目	試驗條件	規格		
110.	Item	Test conditions	Specifications		
5–1	滑動壽命 Sliding life	無負荷狀態,把柄滑動速度600回/小時,有效回移動距離的90%以上,總次數500,000回以上。 The moving contact, without electrical load, shall be slided form one end stop to the other end returned to its original position extend over 90% or more effective distance. Slide speed: 600 cycle/hour. Total cycles:500,000 cycles.	1.全阻抗值的變化為初期值 ±15%以內。 2.滑動雜音:150mV 以下。 3.殘留阻抗:10Ω以下 4.導通阻抗:50Ω以下。 5.其它需滿足(3 項).(4 項) 1.Change in total resistance is relative to the value before test ±15%. 2.Noise:150 mV MAX. 3.Residual resistance:10ΩMAX. 4.Conductive resistance:50Ω MAX. 5.Clause (3).(4) shall be satisfied.		

6.馬達驅動性能 Motor drive characteristic

NO.	項 目 Item	試 驗 條 件 Test conditions	規 格 Specifications							
		Tost conditions	•							
6–1	額定電壓	馬達端子間。	5V D.C.							
	Rated voltage	Between terminals of the motor.								
6–2	使用電壓範圍 Operating supply voltage range		6∼11V D.C.							
6–3	把柄移動速度 Moving speed oflever	輸入電壓D.C.10V Supply voltage 10V D.C.	20mm/0.1sec以上 (MIN)							
6–4	最大電流 Maximum current	把柄固定時,輸入額定電壓D.C.10V。 Lock the shaft of the motor and the rated voltage 10V D.C. shall be applied to the motor.	800mA以下 (MAX)							

RoHS Compliance

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