



Datasheet

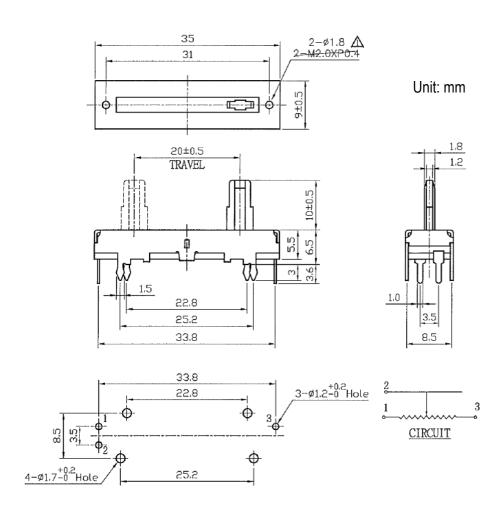
Item no. 1572239

V1_08292018_01_en

Slide Potentiometer









Datasheet

Item no. 1572239

V1_08292018_01_en

Tolerance:	
Below 10	±0.3
10 - 100	±0.5
Above 100	±0.8
Angle	±5°

一.ELECTRICAL CHARACTERISTICS 電氣特性

序號	項目	性 能	測試條件	
NO.	ITEM	PERFORMANCE	TEST CONDITIONS	
1.1	Total resistance 全阻値	10KΩ ±20%	Between terminal 1 and terminal 3. 1-3 端子間.	
1.2	Resistance taper 阻抗特性型式	Type B Refer to attached drawing "Resistance taper characteristics". B型 見所附"阻型特性圖".	It should be tested at the position of 50% of the effective use angle. Percentage of the voltage of (C、E、RD type terminal 2-3 and other type terminal 1-2)to the voltage of terminal 1-3. 在有效使用角度的 50%的位置測定,(C、E、RD 阻型其端子 2-3 腳,其它阻型其端子 1-2 腳)電壓對端子 1-3 腳電壓的百分比。	
1.3	Rated power 額定功率	Single unit:■Linear taper B:0.2W □Other tapers: 0.1 W Dual unit: □Linear taper B:0.2W □Other tapers: 0.1 W 單聯: ■B型: 0.2W □其它阻型: 0.1 W 雙聯: □B型: 0.2W □其它阻型: 0.1 W	The rated power should be changed according to the following chart when the ambient temperature changed. 它與環境溫度按以下曲線變化。 DERATING CURVE OF RATED DISSIPATION	



Datasheet

Item no. 1572239

V1_08292018_01_en

			- 500	
1.4	Rated voltage 額定電壓	rated voltage as maximum 75 V DC and 50 V AC	E=√PR E:額定電壓 Rated voltage(V) P:額定功率 Rated power(W) R:公稱阻値 Normal total resistance(Ω) The rated voltage is calculated by above formula. When the rated voltage exceeds the maximum operating voltage, the maximum operating voltage should be the rated voltage. 額定電壓按以上公式計算,當額定電壓超過最大工作電壓時,最大工作電壓即爲額定電壓.	
1.5	Sliding noise 雜訊	Less than 100 mV 小於 100mV	By JIS method	
1.6	Insulation resistance 絕綠阻抗	More than 10MΩ 10MΩ以上	Apply DC 250V to the individual terminals and metallic Case. 端子與金屬外殼間加 DC250V 電壓.	
1.7	Withstand voltage 耐電壓特性	Without arcing or breakdown 無損壞或弧光	Apply AC 300V between specified terminals and metallic case for 1 minute. 在特定端子與金屬外殼間加 AC300V 電壓 1 分鐘.	
1.8	Residual Resistance 殘留電阻値	Term1-2(2'~3'): Less than 10 Ω Term2-3(1'~2'): Less than 30 Ω 1-2(2'~3')端子間:小於 10 Ω 2-3(1'~2')端子間:小於 30 Ω	Resistance between terminal 1-2 and terminal 2-3 in full CW sliding and full CCW sliding. 滑柄以逆時針方向和順時針方向滑行 到底時 1-2 與 2-3 腳之阻值.	
1.9	Gang Error (Dual Unit) 同步誤差(雙聯)	- <u>/</u> dB~ <u>/</u> dB ± <u>/</u> dB	It should be tested at the following drawing: 接下圖之方式測式之:	

二.MECHANICAL CHARACTERISTICS 機械特性

序號 NO	項 目 ITEM	性 能 PERFORMANCE	測試條件 TEST CONDITIONS
2.1	Total Sliding Travel 行程	<u>20</u> mm ± <u>0.5</u> mm	
2.2 Operating Force 滑動力		10 ~ _100_ gf	Traveling speed: 20mm/sec 每秒 20mm 滑動速度測定
Sliding Stopper Strength 止動強度		There should be no visual damage when minimum 5.0 Kgf.cm of torque are applied. 當其承受最小 5.0Kgf.cm 之推 拉力時,無明顯破壞及損傷	Test duration: slide to terminal 1 and terminal 3 specifically for 10±1 sec. 測試時間:滑動至 1 腳端和 3 腳端各 10±1 秒.



Datasheet

Item no. 1572239

V1_08292018_01_en

2.4	Push-Pull Strength of handle 滑柄推拔承受強度	There should be no broken when Maximally 3.0 Kgf of push strength and 3.0 Kgf pull strength are applied. 應用 3.0Kgf 的推力及 3.0Kgf 的拉力,無損傷。	Test duration: 10 sec. of push force immediately followed by 20 sec. of pull force should be applied. Test point and direction: The strength should be applied to the top end of the handle in axial direction. 測試時間:應用推力 10 秒鐘后立即應用拉力爲 20 秒鐘;測試點及方向:測試點爲滑柄頂部,方向爲軸向。	
2.5	2.5 Handle Wobble 滑柄晃動 2(2×L)/20mm Max. L—Handle length L—滑柄長度		Apply 0.5kgf force perpendicular to the handle at the position of 5mm to the top end of the handle. 在距滑柄頂端 5mm 處加 0.5kgf 且與滑柄垂直的力.	
2.6	Number of detents (click) 日1C(Center Detent 中段功能) 日1C(Center Detent 中段功能) 日1C、日21C、日41C		For with-detent type. 加中段功能機種使用	
2.7	7 Click force		For with-detent type. 加中段功能機種使用	

三. ENDURANCE CHARACTERISTICS 耐久性能

序 號 NO	項 目 ITEM	性 能 PERFORMANCE	測 試 條 件 TEST CONDITIONS			
3.1	Dry heat 耐熱性	Variation of total resistance should +5% be within -30%. To be operated mechanically. +5% 全阻值變化要在-30%以內,機 械方面能動作。	Test temperature:80±2℃ Test duration:240±8h Exposure to room temperature: 1h to 2h. 測試溫度 80±2℃, 時間 240±8 小時, 室溫保持 1 至 2 小時。			
3.2	Cold 耐寒性	The total resistance change should be within ±20%. To be operated mechanically. 全阻值變化要在±20%以內, 機械方面能動作。	Test temperature:-30±3℃ Load condition: No load Low temperature exposure:96±4h Exposure to room temperature:1h to 2h 測試溫度-30±3℃,無負載, 時間 96±4 小時,室溫保持 1 至 2 小時。			
3.3	Damp heat 耐濕性	Insulation resistance: more than 10M Ω with 250V insulation resistance tester. The total resistance change should be within 20%. To be operated mechanically. 用 250V 絕緣測試機測試,絕緣阻抗 10MΩ以上。全阻值變化要在± 20%以內,機械方面能動作。	Place the tested samples in the thermostat with the temperature 40±2℃ and 90% to 95% of the relative humidity for 96 ±4 hrs, then drop off water and proceed test. 測試溫度 40±2℃,濕度 90%至 95%,時間 96±4 小時,並在恆溫箱外擦干水珠后立即測試。			



Datasheet

Item no. 1572239

V1_08292018_01_en

		Variation rate of resistance unit: % 阻值變化率單位:%						
		Nominal total Resistance law						
3.4	Temperature characteristic	resistance(R)	В	Other tapers		Test temperature:70±3°C Test duration: 5h		
	溫度特性		ithin 5 -20			測試溫度 70±3℃,時間 5 小時。		
			ithin 5 -25					
3.5	Vibration 振動	To be operated m No sliding abnorn Electrical chara usual. 機械方面能動作 氣性能正常。	mality octeris	y. stics are	as	Place the handle to the half-way of ful sliding travel. Parts should be secured to a 10Hz and 55Hz logarithmic vibration machine by a mounting device. The test should be made with the vibration direction of X,Y, Z 3 directions perpendicular to the actuator and 2 hours for each direction. Leave the test sample in the room temp for 1-2 hrs. 把滑動座停留在中間位置,然後把電位器放在頻率爲 10Hz 與 55Hz 的正弦频 動器上來回振動,在 X,Y,Z 三個方向,每一個方向振動 2 小時,然後在室溫放置 至 2 小時.		
3.6	Salt mist 鹽霧試驗	No apparent rust and discoloration 無明顯銹跡,無變色				Test should be made with temperature of 35±2℃ and concentration of 5±1% (by weight) for 16 h. Then clean with water. 在溫度為 35±2℃,濃度(重量比)為 5±1% 的條件下,進行 16 小時連續噴霧后取出 水洗.		
3.7	Solder ability 焊錫性	Not less than 3/4 of the surface dipped shall be covered with new solder. 浸錫部分表面最少 3/4 被新錫覆蓋。			w	Temperature of solder: 235 ± 5 ℃ duration:3±0.5s. 焊錫溫度 235±5℃,浸錫時間 3±0.5 秒。		
3.8	Resistance to soldering heat 焊錫耐熱性	Variation of total resistance shall be within ±5%, and terminals shall not work loose to injure electric contact, after test. 全阻值變化±5%以內,測試後無端子鬆動,不會損壞電氣接點。			ot ct,	Solder dip:浸焊 Preheating condition: Surface temperature of the substrate shall be settled within 100℃ in one min. 預熱: 基板表面溫度 100℃以下,1 分鐘內。 Solder temperature 260±5℃ for 5 sec. 焊錫溫度 260±5℃,5 秒。 Manual Soldering: Less than 350℃ and quicker than 3 seconds. 手銲: 350℃以下,3 秒以內		



Datasheet

Item no. 1572239

V1_08292018_01_en

3.9	Sliding life 滑動壽命	Standard life 標準壽命: Variation of total resistance should be within ±15%, Sliding noise should be within 150 mV. 全阻值變化±15%以內,滑動雜訊 150mV 以內。 Long life 長壽命: Variation of total resistance should be within ±20%, Sliding noise should be within 300 mV. 全阻值變化±20%以內,滑動雜訊 300mV 以內。	■Standard life 標準壽命: 15,000 cycles Min 15,000 次以上。 □Long life 長壽命: 100,000 cycles Min 100,000 次以上。
-----	----------------------	--	--

四.General 一般事項

序號 NO	項 目 ITEM		
NO	Unless otherwise specified, test and measurement should be carried out in following condition: 如無特殊要求,試驗與測試將按以下條件進行:		
4.1	Ambient temperature 溫度	15°C to 35°C	
4.1	Relative humidity 相對濕度	25% to 75%	
	Air pressure 氣壓	86 KPa to 106 KPa	
4.2	Operating temperature range 使用溫度範圍	-10°C ~+70°C	
4.3	Storage temperature range 儲存溫度範圍	-30°C ~+80°C	





Datasheet

Item no. 1572239

V1_08292018_01_en

SPECIFICATIONS

Electrical characteristics

· Resistance Taper Characteristics

Resistance Taper Characteristic	Test Position (%)	V1-2 V1-3 X100%	V2-3 V1-3 V100% (%)	
A	50	10~25		
В	50	40~60		
С	50(started from Term.3)	:	10~25	
D	50	6~15		
E	50		18~34	
	30 (±5 degree)	5~15		
w	50	40~60		
	70 (±5 degree)	85~95		

