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ISO 9001 國際品質認證
ISO 9001 CERTIFICATE

松暉電機工業股份有限公司
SONG HUEI ELECTRIC CO., LTD.
佛山市松暉電機科技有限公司
FOSHAN SONG HUEI ELECTRIC CO., LTD.

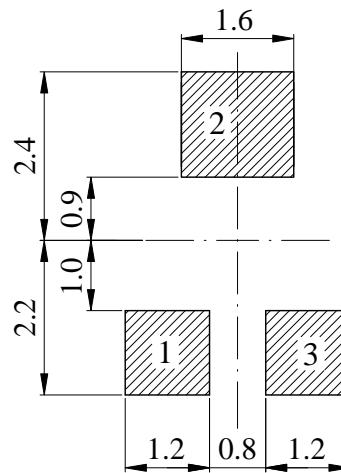
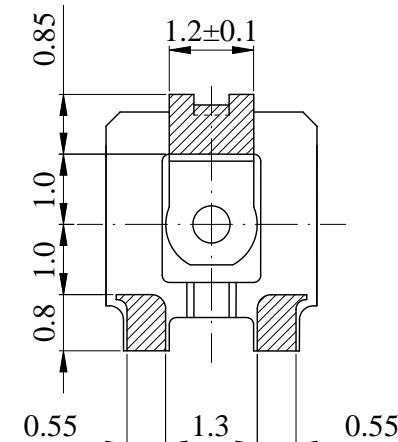
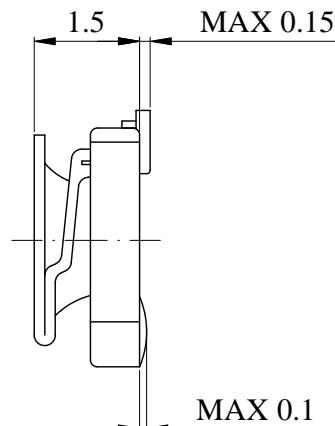
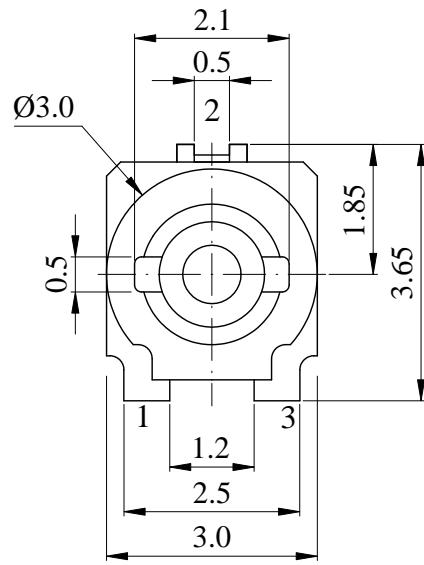
一般事項 General		
使用溫度範圍 Operating temperature	-55 °C ~ 125 °C	
電氣特性 Electrical Characteristics		
總阻值 (R) Total resistance	100 Ω ~ 2.2 MΩ	
總阻值容許誤差 Total resistance tolerance	± 25 % (More than 1 MΩ ± 30 %)	
阻值線性 Resistance taper	B	
殘留阻值 Residual resistance	R ≤ 1 KΩ: Less than 20 Ω R > 1 KΩ: Less than 2 % of the nominal total resistance	
定格電力 Rated power (W)	<p>對於抵抗體全域，連續能載荷之電力的最大值為 0.1 W，工作時周遭的溫度不能超 70 °C，但是周遭溫度超過 70 °C 時，依下圖經減之：</p> <p>0.1 W shall be the maximum power applied continuously to all parts of the resistor at an ambient temperature of 70 °C and under. On condition that for the ambient temperature is over 70 °C, the power shall be decreased as shown in the figure below.</p> <p>Percent rated wattage (%)</p> <p>Ambient temperature in degrees centigrade (°C)</p>	
額定電壓 Rated voltage (V)	$E = \sqrt{P * R}$ <p>E: Rated voltage 額定電壓 (V) P: Power rating 額定電力 (W) R: Nominal total resistance 公稱全阻抗值 (Ω)</p> <p>當額定電壓超過最高使用電壓的時候，最高使用電壓即為額定電壓。 When the rated voltage exceeds the maximum operating voltage, the maximum operating voltage shall be the rated voltage.</p>	
最高使用電壓 Max operating voltage	AC 20 V DC 20 V	
接觸阻抗 Contact resistance variation	5% max	
機械特性 Mechanical Characteristics		
全回轉角度 Total rotational angle	360 °	
回轉力矩 Rotational torque	10 ~ 200 gf.cm	
有效調整角度 Total rotational angle	250 ° ± 20 °	
耐候性 Weather Performance		
項目 Item	測試條件 Test Conditions	規格 Performance
長時間之耐熱 Resistance to long time high temperature	<p>無負荷時，在 70 °C ± 3 °C 之槽內，放置 1000 ± 12 小時後，以無負荷放置在常溫常濕之室內 1 小時以上。</p> <p>Without load, place under 70 °C ± 3 °C for 1000 ± 12 hours. Then further without load, place under room temperature / humidity for more than 1 hour.</p>	
耐濕特性 Resistance to damp	<p>以無負荷在 40 °C ± 2 °C，濕度 90 ~ 95 % 之槽內，放置 500 ± 10 小時後，以無負荷放置在常溫常濕之室內 1 小時以上。</p> <p>Without load, place under temperature 40 °C ± 2 °C and humidity 90 ~ 95 % for 500 ± 10 hours. Then further without load, place under room temperature / humidity for more than 1 hour.</p>	



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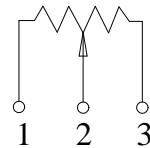
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耐久特性 Durability		
項目 Item	測試條件 Test Conditions	規格 Performance
回轉壽命特性 Life test	<p>無載荷時，將摺動子以 10 秒一次來回之速度，在有效回轉角之 90 % 以上，回轉 20 ± 2 次。</p> <p>The change in resistance shall not exceed $\pm 10\%$ after rotating slider in 20 ± 2 cycles at a rate of 10 seconds per cycle, and rotation angle more than 90 %.</p> <p>(One cycle is one turn clockwise, then one turn counter clockwise)</p>	<p>抵抗值的變化為 $\pm 10\%$ 以內。</p> <p>The change of resistance value is within $\pm 10\%$</p>
負荷壽命特性 Life load	<p>在 $70 \pm 3^\circ\text{C}$ 之溫度槽，加上 1.5 小時定格電壓後切 0.5 小時，如此循環連續做 1000 ± 12 小時後，在常溫常濕室內，以無載荷放置 1 小時以上。</p> <p>Apply load with rated voltage for 1.5 hours and without load for 0.5 hour, and repeated in a chamber at $70^\circ\text{C} \pm 3^\circ\text{C}$ for 1000 ± 12 hours. After left for 1 hour at room temperature and humidity.</p>	<p>抵抗值的變化為 $\pm 5\%$ 以內。</p> <p>The change of resistance value is within $\pm 5\%$</p>
耐濕負荷壽命 Humidity load life	<p>在 $40 \pm 2^\circ\text{C}$，溼度 $90 \sim 95\%$ 之恆溫恆濕槽加上 1.5 小時定格電壓後切 0.5 小時，如此循環連續重覆做 1000 ± 12 小時後，在常溫常濕之室內，以無載荷放置 1 小時以上。</p> <p>Apply load with rated voltage for 1.5 hours and without load for 0.5 hour, repeated in a chamber at $40 \pm 2^\circ\text{C}$ and 90 to 95 % R.H. for 1000 ± 12 hours. After left for 1 hour at room temperature and humidity.</p>	<p>抵抗值的變化為 $\pm 5\%$ 以內。</p> <p>The change of resistance value is within $\pm 5\%$</p>
焊錫條件 Soldering condition	<p>溫度 $255^\circ\text{C} \pm 5^\circ\text{C}$，時間 10 秒以內 (總計時間)</p> <p>Soldering temperature $255^\circ\text{C} \pm 5^\circ\text{C}$, and soldering time within 10 seconds.</p> <p>Diagram illustrating the soldering profile:</p> <ul style="list-style-type: none"> Standard conditions Temperature range: $150 \sim 180^\circ\text{C}$ Time: $90 \pm 30\text{SEC}$ Peak Temperature: $\leq 255^\circ\text{C}$ Peak Time: 10SEC MAX Total time: $3 \sim 4\text{min}$ 	
溫度係數 Temperature coefficient	<p>以無載荷 25°C (30 分) $\rightarrow -55^\circ\text{C}$ (30 分) $\rightarrow 25^\circ\text{C}$ (30 分) $\rightarrow +125^\circ\text{C}$ (30 分) 放置時之溫度係數是 $\pm 250 \text{ PPM} / ^\circ\text{C}$ 以內。</p> <p>Without load and under temperature 25°C (30 mins) $\rightarrow -55^\circ\text{C}$ (30 mins) $\rightarrow 25^\circ\text{C}$ (30 mins) $\rightarrow +125^\circ\text{C}$ (30 mins), the temperature coefficient is within $\pm 250 \text{ ppm} / ^\circ\text{C}$.</p>	
包裝方式 Packing	<p>每捲 2,000 pcs</p> <p>2,000 pcs per reel</p>	



Mounting Hole

CIRCUIT



Non notation tolerance	
< 10	±0.3
10 ~ 100	±0.5
> 100	±0.8

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MODEL: C3305A/0434

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Approval	R&D 2018-12-18 藍濬毅	Checked 廠長 2018-12-18 鄧記穩	Projected R&D 2018-12-18 何鴻根	UNIT	mm	SCALE	10:1
				VERSION	1.2	DATE	2014.01.02
				DRAWING NO.	C05-003		

④			
③			
②	整理图元	何鴻根	2018.12.18
①	增加0434	何鴻根	2017.6.02
ISSUE	SUBJECT	NAME	DATE

RECORD