



軒立电子（深圳）有限公司

Taclex Electronics Co., Ltd.

SPEC NO: 20210531001

承认书

SPECIFICATION

客户: IMI Technology (Shenzhen) Co., Ltd.

品名 (SERIES) : ROTARY

客戶料號(CUSTOMER P/N): N/A

TACLEX 料号 (MANUFACTURER P/N) : RSF-AARM

提出日期 (DATE) : 2021-5-31

APPROVED BY	
CUSTOMER	TACLEX

制作人: Wennie Email: taclex08@taclex.com


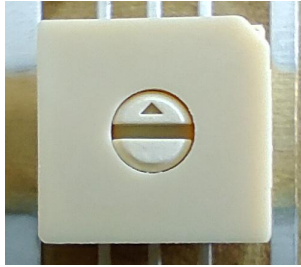

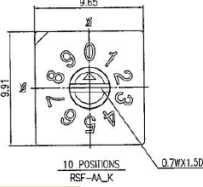
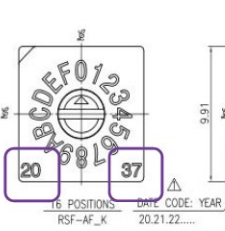
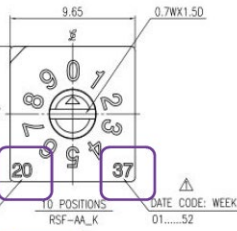
TACLEX ELETRONICS CO., LTD

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2105-2107 Wanda Center, #208 Dongzhong Road, Dongcheng District, Dongguan city
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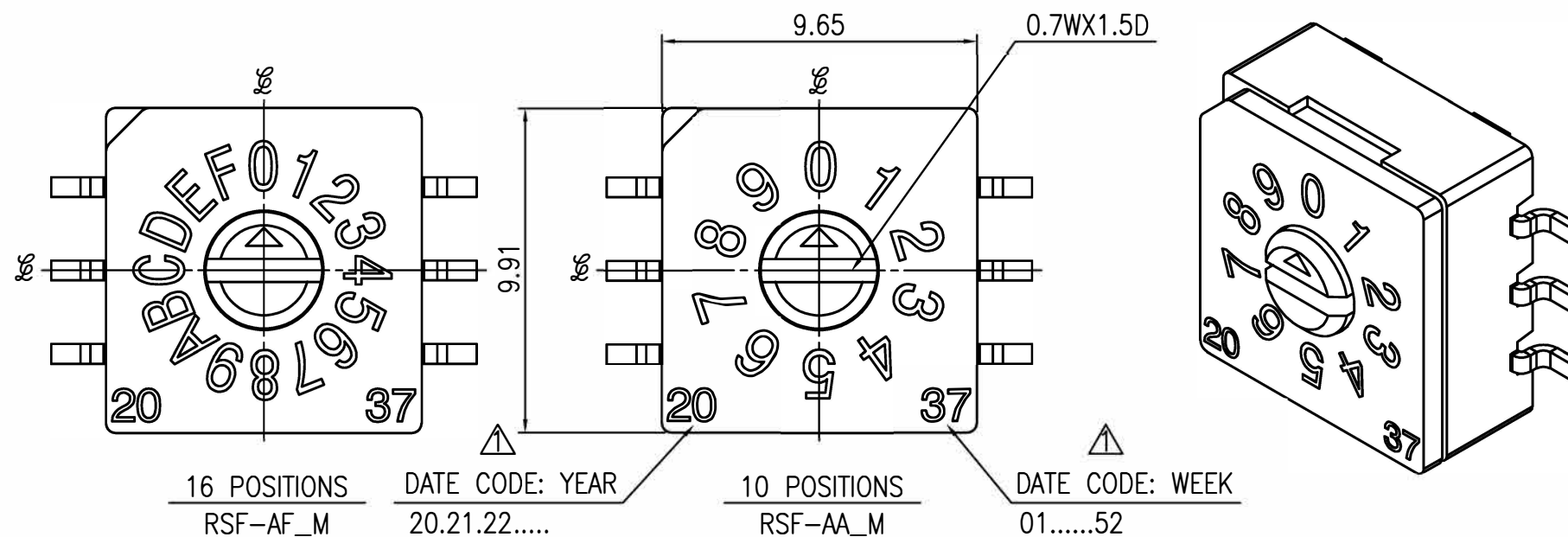
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4M Change Apply Report

Manufacturer	Proposer	Check
TACLEX	Wennie	Emma
Date: 2021.06.22		
<p>1. Base and cover plastic material change:</p> <p>We will use both of the following materials in our base and cover</p> <p>PA9T GN2332-1-KW008➡White PA9T GN2330-NA➡Natural</p> <div style="display: flex; justify-content: space-around;">   </div> <p>2. Position Change of D/C</p> <p>Before</p> <div style="display: flex; justify-content: space-around;">   </div> <p>After</p> <div style="display: flex; justify-content: space-around;">   </div>		
<p>Effect: 1.Improve supply stability</p> <p>2.Improve quality</p>		
Switch Date: From next order	Remark	

P/N: RSF-AARM	Change Description
<p>Reason:</p> <p><input type="checkbox"/> Improve production</p> <p><input type="checkbox"/> Improve quality</p> <p><input type="checkbox"/> Improve safety</p> <p><input type="checkbox"/> Customer' s spec</p> <p><input checked="" type="checkbox"/> Others</p> <p>Mterial Change</p>	<p>4M Change Statement</p> <p>1. Man : N/A</p> <p>2. Machine : N/A</p> <p>3. Material : Base and cover plastic material change</p> <p>Before : Only PA9T GN2332-1-KW008➡White</p> <p>After : Both PA9T GN2332-1-KW008➡White & PA9T GN2330-NA➡Natural</p> <p>Color</p> <p>※ Reason</p> <p>① In this year,because of the poor condition of raw materials, we highly depends on the distribution of plastic factory. The plastic factory suggested that we' d better approve plastic in both colors at the same time, which is more flexible and avoid the risks of plastic materials out of stock.</p> <p>4. Mehtod : N/A</p> <p>5. Others: Position change of D/C</p> <p>※ Reason</p> <p>In order to distinguish the products after material change, the D/C will be laser-carved in the front of products.</p>



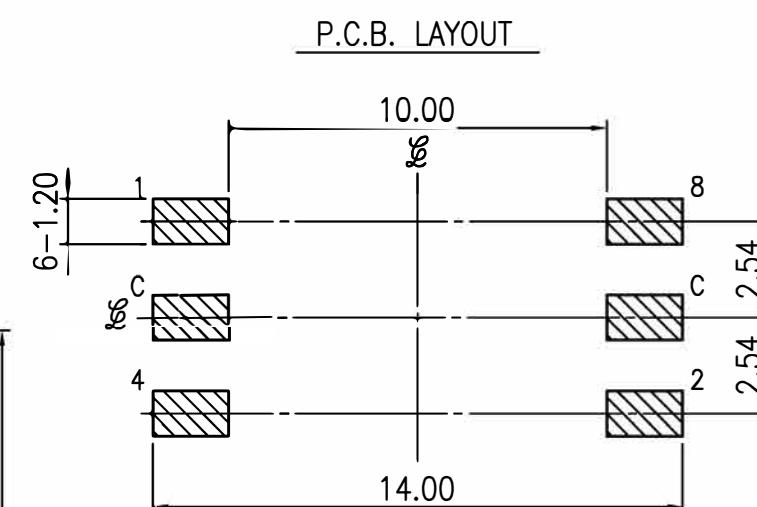
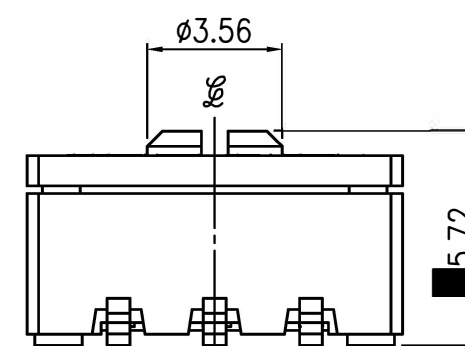
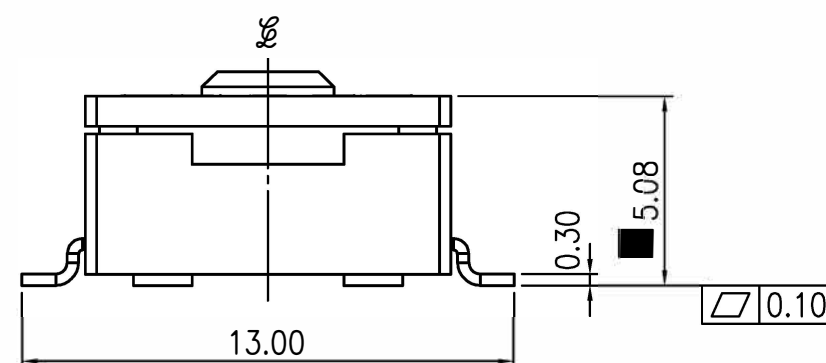
- SPECIFICATIONS:
1. MAXIMUM RATING: 24VDC. 25mA.
 2. MINIMUM RATING: 3.5VDC. 10 μ A.
 3. CONTACT RESISTANCE: 200m Ω MAX.
 4. INSULATION RESISTANCE: 250VDC-100M Ω MIN.
 5. WITHSTAND VOLTAGE: 250VAC-1 MINUTE
 6. ROTARY TORQUE: 350gf.cm MAX.
 7. TOTAL ROTARY ANGLE: 360° (10 or 16 STEPS)
 8. LIFE CYCLE: 20,000 STEPS

CIRCUIT CHART

REAL CODE
RSF-A_RM

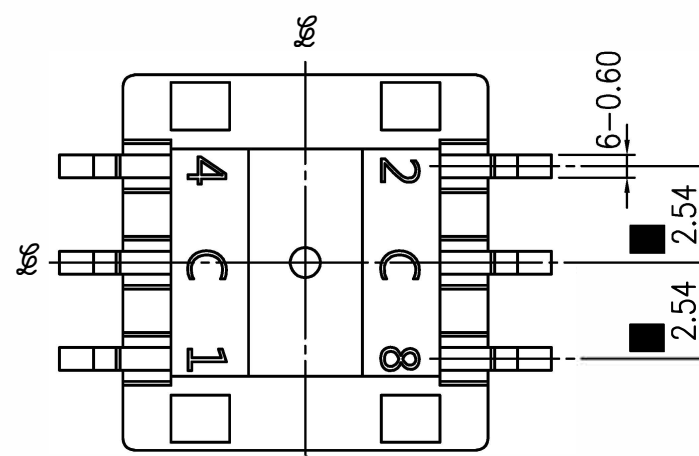
GRAY CODE
RSF-A_GM

		CODE				
		C	1	2	4	8
10 POSITIONS	0	●				
	1	●	●			
	2	●		●		
	3	●	●	●		
	4				●	
	5	●	●		●	
	6	●		●	●	
	7	●	●	●		
	8	●				●
	9	●			●	●
16 POSITIONS	A	●	●	●	●	●
	B	●	●	●	●	●
	C	●		●	●	●
	D	●	●		●	●
	E	●		●	●	●
	F	●	●	●	●	●



HATCHED AREA SHOW SOLDERING LAND

NO.	PART NAME	MATERIAL	Q'TY	FINISHING
1	FRAME	PA+G	1	
2	COVER	PA+G	1	
3	SPRING PLATE	SUS	1	
4	ROTOR	LCP+G	1	
5	TERMINAL	BRASS	6	Au/Sn PLATED
6	CONTACT PLATE	COPPER ALLOY	1	Au PLATED
7	O-RING	SILICONE RUBBER	1	
8	SPACER	SUS	1	



TACLEX ELECTRONICS CO., LTD.

TOLERANCES UNLESS
OTHERWISE SPECIFIED
LINEAR: ± 0.30 ANGULAR: $\pm 3^\circ$

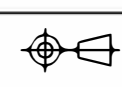
SIGNATURES

DATE

TITLE

ROTARY SWITCH

REVISIONS
A1



SCALE
5/1

CHK'D
APPV'D

NO.

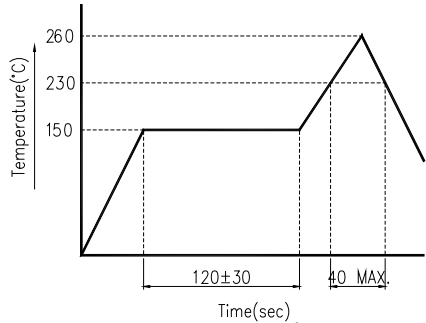
RSF-A__M

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△	增加DATE CODE	2020.12.03	Austin
SYM	DISCRIPTION	DATE	APPROVED

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Revision: B2		Date: 2021.05.24

- 1 Test conditions:
測試條件:
Standard test conditions shall be 5~35°C in temperature, 45~85%RH in humidity and 86~106kPa in atmospheric pressure. should any doubt arise in judgment, tests shall be conducted at 20±2°C in temperature, 60~70%RH in humidity and 86~106kPa in atmospheric pressure.
標準測試條件為溫度 5~35°C、濕度 45~85%RH、大氣壓力 86~106kPa，在判定上如有疑義時測試條件為溫度 20±2°C、濕度 60~70%RH、大氣壓力 86~106kPa。
- 2 Operating temperature range: -40~+ 85°C
使用溫度範圍: -40~+ 85°C
- 3 Storage temperature range: -40~+ 85°C
儲存溫度範圍: -40~+ 85°C
- 4 Construction:
構造:
 - 4.1 Shape and dimension are subject to attached drawing regulation.
外型尺寸依據圖面規範。
 - 4.2 Appearance: whole should be a good completion, no rust, no crack and good plating.
外觀: 外形完整，沒有鏽蝕，沒有裂痕及良好的電鍍。
 - 4.3 Protective structure: IPX7 equivalent.
保護結構: IPX7 防護等級。
- 5 Rating: (resistive load)
額定功率: (電阻負荷)
 - 5.1 25mA, 24VDC MAX.
25mA, 24VDC 最大負荷。
 - 5.2 10 μ A, 3.5VDC MIN.
10 μ A, 3.5VDC 最小負荷。
- 6 Electrical performance:
電氣性能:

No. 項次	Items 項 目	Test conditions 測 試 條 件	Specifications 規 格
6.1	Contact resistance 接觸電阻	Shall be measured at 1KHz±200Hz (MAX. 20mV, MAX. 50mA.) or 1A, 5VDC. by voltage drop method. 量測於 1KHz±200Hz (MAX. 20mV, MAX. 50mA.) 或 1A, 5VDC.電壓降下法量測。	200m Ω MAX. 200m Ω 以下。
6.2	Insulation resistance 絕緣電阻	Shall be measured by applying 250VDC. Between all terminals and between the terminals and the body for 1 minute. 施以 250VDC 於端子與端子和端子與本體間 1 分鐘後測定。	100M Ω MIN. 100M Ω 以上。
6.3	Withstand voltage 耐電壓	250VAC. 50~60Hz (sensitivity electric current 2mA.) Shall be applied between all terminals and between the terminals and the body for 1 minute. 施以 250VAC. 50~60Hz (感受電流 2mA.)於端子與端子和端子與本體間 1 分鐘。	No dielectric break down. No electric arc. No damage of insulation. 沒有絕緣破壞、沒有產生電弧、沒有部品損傷。
7 Mechanical performance: 機械性能:			
7.1	Rotational torque 旋轉轉矩		Refer to individual product drawing. 請查閱個別製品圖面。
7.2	Rotational angle 旋轉角度		Refer to individual product drawing 請查閱個別製品圖面。
7.3	Control strength 操作部強度	The static load of 1 Kgf shall be applied in the vertical direction of the control unit for 15 seconds. 正上方於操作部位置施以 1Kgf 靜態負荷 15 秒。 The static load of 1 Kgf shall be applied in the right angle of the	No break down and no crook in operating part. 開關操作部沒有故障和彎曲。

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		control unit for 15 seconds. 垂直於操作部位置施以 1Kgf 靜態負荷 15 秒。			
7.4	Solder ability 焊錫性	Lead free solder：M705E JIS Z 3282 Class A. 無鉛焊錫：M705E JIS Z 3282 A 級。 (Tin 96.5%，Silver 3%，Copper 0.5%) (錫 96.5%，銀 3%，銅 0.5%) Flux: 5-10 seconds. 助焊劑浸漬時間：5~10 秒。 Soldering temperature：245±3℃。 焊錫溫度：245±3℃。 Put in solder bath for 2~3 seconds. 放置錫爐時間 2~3 秒。		More than 90% of dipped part shall be covered by solder. excluding the cutting surface. 浸泡部焊錫附著 90%以上，切斷面除外。	
7.4	Solder heat resistance 焊錫耐熱性	<div>1.Soldering by hand: 人工焊錫: Put in solder for 3 seconds MAX. at 350℃ MAX. 焊錫時間 3 秒 以下溫度 350℃ 以下。 Capacity of soldering iron: 20W MAX. 烙鐵能量: 20W 以下。</div> <div>2. Soldering by reflow: 回流焊錫: <div></div><div>*Peak temperature & time: 260℃ max. 5 seconds. max. 峰值溫度與時間: 260℃以下，5 秒 以下。 Above mentions time-temperature chart is based on the temperature on the parts - mounting surface of P.C.B. 上面提及之 時間-溫度圖 是根據在 P.C.B 表面之溫度。</div></div> <div>3. Soldering by automatic:(Wave Soldering) 自動焊錫:(波峰焊) Preheat temperature: 120℃ max. 預熱溫度: 120℃以下。 Preheat time: 60 seconds. max. 預熱時間: 60 秒 以下。 Soldering temperature: 260±5℃. 焊錫溫度: 260℃±5℃。 Soldering time: 10 seconds. max. 焊錫時間: 10 秒 以下。 (PCB is 1.6mm in thickness) (PC 板厚度為 1.6mm)</div>		No deformation of appearance, no break down of plastic part and no hindrance for electrical function. 外觀沒有變形、塑膠部品沒有故障和沒有妨礙電氣功能。	
8. Weather performance: 環境性能:					
8.1	Cold test 耐寒性	Testing switch being kept in the conditions at -40±2℃ in temperature for 96 hours, then in a normal ambient condition for 1 hour, then to be measured within 1 hour. 在條件被保留之試驗用開關置於溫度-40±2℃、96 小時後置		Contact resistance: 200mΩ MAX. 接觸電阻: 200mΩ 以下。 Insulation resistance:	

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		於正常環境 1 小時，於 1 小時內量測。	100MΩ MIN. 絕緣電阻: 100MΩ 以上. Item 6.3 滿足項次 6.3 Item 7.1 滿足項次 7.1	
8.2	Heat test 耐熱性	Testing switch being kept in the conditions at 85±2℃ in temperature for 96 hours, then in a normal ambient condition for 1 hour, then to be measured within 1 hour. 在條件被保留之試驗用開關置於溫度 85±2℃、96 小時後置於正常環境 1 小時，於 1 小時內量測。	Contact resistance: 200mΩ MAX. 接觸電阻: 200mΩ 以下. Insulation resistance: 100MΩ MIN. 絕緣電阻: 100MΩ以上. Item 6.3 滿足項次 6.3 Item 7.1 滿足項次 7.1	
8.3	Humidity test 耐溼性	Testing switch being kept in the conditions at 40±2℃ and 90～95% RH for 96 hours, then in a normal ambient condition for 1 hour, then to be measured within 1 hour. 在條件被保留之試驗用開關置於溫度 40±2℃ 溼度 90～95% RH、96 小時後置於正常環境 1 小時，於 1 小時內量測。	Contact resistance: 200mΩ MAX. 接觸電阻: 200mΩ 以下. Insulation resistance: 10MΩ MIN. 絕緣電阻: 10MΩ 以上. Item 6.3 滿足項次 6.3 Item 7.1 滿足項次 7.1	
8.4	Water resistance (adhere to IPX7) 防水性 (符合 IPX7)	1. Liquid : Fresh water 液體：淡水 2. Temperature : 20±15 ℃ (Ambient temperature) 溫度：20±15℃（環境溫度） 3. Immersion depth : 1 M 浸入深度：1 公尺 4. Duration of test : 30 min. 測試持續時間：30 分鐘 Water around the switch shall be removed by the moisture absorbing material, then expose the switch in the ambient temperature and humidity for 1 hour before checking. 開關周圍的水應通過吸濕材料去除，然後將開關置於環境溫度和濕度下 1 小時內檢查。 * Temperature difference between switch and liquid shall be 5 ℃ max. *開關與液體之間的溫差最大為 5℃。	Water ingress shall be limited enough to prevent deleterious effect to the switch function. 開關內部沒有水侵入，阻止對開關特性產生有害影響。	
9. Durability: 耐久性能:				
9.1	Life test 壽命測試 (without load) (無負荷)	Measurements shall be made following the test set forth below: 依照下列指出測試方式作量測: 1. Resistive load: without load. 電阻負荷: 無負荷。 2. Rate of operation: 15~20 steps / minute. 操作速率: 15~20 段/分鐘。 3. Cycles of operation: 20,000 steps. 操作次數: 20,000 段。	Contact resistance: 200m Ω MAX. 接觸電阻: 200m Ω 以下. Insulation resistance: 10MΩ MIN. 絕緣電阻: 10MΩ 以上. Item 7.1 滿足項次 7.1	
9.2	Life test 壽命測試 (with load) (負荷)	Measurements shall be made following the test set forth below: 依照下列指出測試方式作量測: 1. Resistive load: 100mA, 5VDC. 電阻負荷: 100mA, 5VDC。 2. Rate of operation: 15~20 steps / minute.	Contact resistance: 200m Ω MAX. 接觸電阻: 200m Ω 以下. Insulation resistance: 10MΩ MIN.	

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	操作速率: 15~20 段/分鐘。 3. Cycles of operation: 20,000 steps. 操作次數: 20,000 段。	絕緣電阻: 10MΩ 以上. Item 7.1 滿足項次 7.1
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【Requirement for storage conditions】

【貯存條件要求】

· When this product is stored under the following conditions and conditions, it can affect the performance deterioration and solderability, etc., avoid storing under the following conditions.

本產品在下列情況和條件下存放時，可以影響性能惡化和可焊性等，避免存放在以下條件。

(1) The highest temperature is -10 °C and the lowest temperature is + 40 °C . The humidity is 85% min.

溫度最高-10℃，最低+ 40℃的地方，濕度為 85%min。

(2) In a corrosive gas environment.

在腐蝕性氣體環境中。

(3) Long-term storage exceeds 6 months.

長期儲存超過 6 個月。

(4) The product is exposed to direct sunlight.

產品暴露在直射陽光下的地方。

· Store in a packaged state so that no load pressure is applied.

存放在包裝狀態，以便不施加負載壓力。

· Please use this product as soon as possible, our recommendation is within 3 months, the limit is 6 months.

請盡快使用本產品，我們的建議是在 3 個月內，限制是 6 個月。

· If the leftovers left after opening the package, please keep them properly and keep them airtight.

如果打開包裝後剩餘的剩餘物，請妥善保存並保存氣密等。

产品可靠性检验记录表

实验编号		RSF(10段)				日期		2021年4月16日 至 2021年5月17日				执行标准		规格书	
产品料号		RSF-AARM				□附件有 ■附件无				检测者		張曉瓊			
NO	实验结果 (测试前)					检验项目	测试条件规格	实验结果 (测试后)					判别	备注	
	测试项目	测试标准	1	2	3			测试项目	测试标准	1	2	3			
1	接触电阻	200mΩ MAX	12.2	12.2	12.0	操作部强度测试	1Kg下压旋钮15秒 1Kg侧压旋钮15秒	接触电阻	200mΩ MAX	12.2	11.7	12.2	OK		
	绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			
	耐电压	250VAC/60S	OK	OK	OK			耐电压	250VAC/60S	OK	OK	OK			
	扭力测试	350gf.cm MAX	OK	OK	OK			扭力测试	350gf.cm MAX	OK	OK	OK			
	外观/作动力	实测值 N	OK	OK	OK			外观/作动力	实测值 N	OK	OK	OK			
2	接触电阻	200mΩ MAX	11.9	12.9	11.4	焊锡性测试	245±3℃ 助焊剂渍时间5~10秒 放置锡炉时间2~3秒	接触电阻	200mΩ MAX	12.6	13.2	12.0	OK		
	绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			
	耐电压	250VAC/60S	OK	OK	OK			耐电压	250VAC/60S	OK	OK	OK			
	扭力测试	350gf.cm MAX	OK	OK	OK			扭力测试	350gf.cm MAX	OK	OK	OK			
	外观/作动力	实测值 N	OK	OK	OK			外观/作动力	附著95%以上	OK	OK	OK			
3	接触电阻	200mΩ MAX	11.9	11.9	12.6	焊锡耐热性测试 (回流焊锡)	峰值温度260℃以下 時間5秒以下	接触电阻	200mΩ MAX	11.9	12.6	11.8	OK		
	绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			
	耐电压	250VAC/60S	OK	OK	OK			耐电压	250VAC/60S	OK	OK	OK			
	扭力测试	350gf.cm MAX	OK	OK	OK			扭力测试	350gf.cm MAX	OK	OK	OK			
	外观/作动力	实测值 N	OK	OK	OK			外观/作动力	附著95%以上	OK	OK	OK			
4	接触电阻	200mΩ MAX	12.7	11.9	12.2	耐寒性测试	-40±2℃ 96H	接触电阻	200mΩ MAX	12.1	11.2	12.6	OK		
	绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			
	耐电压	250VAC/60S	OK	OK	OK			耐电压	250VAC/60S	OK	OK	OK			
	扭力测试	350gf.cm MAX	OK	OK	OK			扭力测试	350gf.cm MAX	OK	OK	OK			
	外观/作动力	实测值 N	OK	OK	OK			外观/作动力	实测值 N	OK	OK	OK			
5	接触电阻	200mΩ MAX	12.5	13.0	12.6	耐热性测试	85±2℃ 96H	接触电阻	200mΩ MAX	12.3	13.5	12.9	OK		
	绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			
	耐电压	250VAC/60S	OK	OK	OK			耐电压	250VAC/60S	OK	OK	OK			
	扭力测试	350gf.cm MAX	OK	OK	OK			扭力测试	350gf.cm MAX	OK	OK	OK			
	外观/作动力	实测值 N	OK	OK	OK			外观/作动力	实测值 N	OK	OK	OK			
6	接触电阻	200mΩ MAX	12.1	11.7	12.7	耐湿性测试	40±2℃ 湿度90~95% 240H	接触电阻	200mΩ MAX	11.9	11.5	12.7	OK		
	绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			
	耐电压	250VAC/60S	OK	OK	OK			耐电压	250VAC/60S	OK	OK	OK			
	扭力测试	350gf.cm MAX	OK	OK	OK			扭力测试	350gf.cm MAX	OK	OK	OK			
	外观/作动力	实测值 N	OK	OK	OK			外观/作动力	实测值 N	OK	OK	OK			
7	接触电阻	200mΩ MAX	13.1	11.4	12.2	防水测试 (IP67)	淡水, 20±15℃ 1公尺, 30min	接触电阻	200mΩ MAX	12.6	12.9	12.4	OK		
	绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			
	耐电压	250VAC/60S	OK	OK	OK			耐电压	250VAC/60S	OK	OK	OK			
	扭力测试	350gf.cm MAX	OK	OK	OK			扭力测试	350gf.cm MAX	OK	OK	OK			
	外观/作动力	实测值 N	OK	OK	OK			外观/作动力	实测值 N	OK	OK	OK			
8	接触电阻	200mΩ MAX	12.3	11.5	11.4	寿命测试	2万次寿命测试 16段为1圈 15~20段/分	接触电阻	200mΩ MAX	13.5	14.0	12.4	OK		
	绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			绝缘电阻	100MΩMIN/250VDC/60S	OK	OK	OK			
	耐电压	250VAC/60S	OK	OK	OK			耐电压	250VAC/60S	OK	OK	OK			
	扭力测试	350gf.cm MAX	OK	OK	OK			扭力测试	50%初期值	OK	OK	OK			
	外观/作动力	实测值 N	OK	OK	OK			外观/作动力	实测值 N	OK	OK	OK			
总结						合格									

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View additional material information including performance and processing data

The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

Component - Plastics

E90350

Guide Information

KURARAY CO LTD

GENESTAR DIV, OTE CENTER BLDG 1-1-3, OTEMACHI, CHIYODA-KU TOKYO 100-8115 JP

GN2330(#)

Polyamide 9T (PA9T), furnished as pellets

<u>Color</u>	<u>Min. Thk (mm)</u>	<u>Flame Class</u>	<u>HWI</u>	<u>HA1</u>	<u>RTI Elec</u>	<u>RTI Imp</u>	<u>RTI Str</u>
ALL	0.75	V-0	0	0	150	120	130
	1.5	V-0	0	0	150	130	140
	3.0	V-0	0	0	150	130	140

Comparative Tracking Index (CTI): 1

Dielectric Strength (kV/mm): -

High-Voltage Arc Tracking Rate (HVTR): 3

Dimensional Stability (%): -

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10^x ohm-cm): -

High Volt, Low Current Arc Resis (D495): 5

(#)- Suffix optional.

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

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**IEC and ISO Test Methods**

Test Name	Test Method	Units	Thk (mm)	Value
Flammability	IEC 60695-11-10	Class (color)	0.75	V-0 (ALL)
			1.5	V-0 (ALL)
			3.0	V-0 (ALL)
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	-	-
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	-	-
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-
IEC Ball Pressure	IEC 60695-10-2	°C	-	-
ISO Heat Deflection (1.80 MPa)	ISO 75-2	°C	-	-
ISO Tensile Strength	ISO 527-2	MPa	-	-
ISO Flexural Strength	ISO 178	MPa	-	-
ISO Tensile Impact	ISO 8256	kJ/m ²	-	-
ISO Izod Impact	ISO 180	kJ/m ²	-	-
ISO Charpy Impact	ISO 179-2	kJ/m ²	-	-