

CUSTOMER'S NAME

MOUSER ELECTRONICS

ALPHA REFERENCE NO.




SP19070083

SPECIFICATION

PART NO.	ALPHA MODEL NAME
	RV16AF-10-15S1-C100K-LA
	313-1560F-100K

MODEL NAME
MODEL NO.

APPROVAL

PREPARED BY	REVIEWED BY	APPROVED BY
 鄧彩霞 2019.7.13	 李延玲 2019-7-13.	 鄒衛 2019.7.15



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THIRD ANGLE PROJECTION

文晉中心
2016.06.23
發行章



FULL C.C.W. POSITION

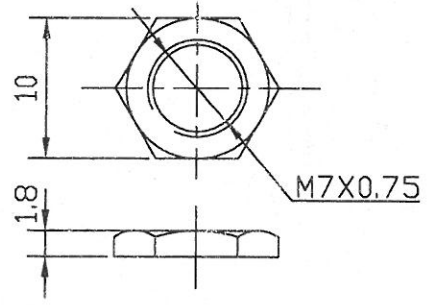


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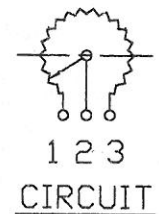
DG ALPHA

NUT 1 PC

WASHER 1 PC t=0.4



● 300° ROTATION MONO UNIT



NOTE:
BUSHING MATERIAL IS ZINC ALLOY DIECASTING.

2016-06-17
收文日

RV16AF-10-(L)S1-XXX(-LA)

No.	DATE	DESCRIPTION	PART No.	NAME
TOL.UNLESS OTHERWISE STATED				
less than	10	±0.3		
above	10~30	±0.5		
above	30~100	±1.0		
above		±5'		
		DIMENSION	SCALE	DRAWN BY
		mm	2	姚 2016.6.14 榕偉
			1	潘 2016.6.14 坤
				CHECKED BY
				APPROVED BY
				DRAWING No.

16Ø 單軸單連迴轉式 VR 規格書

SPECIFICATIONS OF 16Ø ROTARY POTENTIOMETER

一、機械規格 MECHANICAL CHARACTERISTICS :

- 1.1 全迴轉角度：300 ± 5 度
OVERALL ROTATION ANGLE : 300 ± 5° .
- 1.2 迴轉轉矩：20~200gf-cm (迴轉速度 60 度 / 1 秒)
OPERATION TORQUE : 20 ~ 200gf-cm . (ROTATIONAL SPEED 60° / 1 sec)
- 1.3 起動迴轉轉矩：450gf-cm 以下
STARTING TORQUE : 450gf-cm MAX .
- 1.4 軸鬆動：固定腳焊錫後軸前端加上 500gf-cm 之力矩，於軸前端移動之
0.7 × L / 30 mm P-P 以內 .
PLAY OF SHAFT : THE RESISTOR SHALL BE MOUNTED BY SOLDERING THE MOUNTING LEGS ON THE PANEL, AND AN END THRUST OF 500gf-cm AT THE END OF THE SHAFT SHALL BE APPLIED .
THEN THE TOTAL PLAY OF THE SHAFT SHALL BE NOT EXCEED 0.7 × L / 30 mm P-P .
- 1.5 軸擠壓引張強度：焊錫後擠壓，引張耐 8kgf，3 秒（指施加於垂直軸之端面而言）不可有電氣或機械上的異常 .
STRENGTH OF SHAFT AGAINST END THRUST :
THE SHAFT SHALL WITHSTAND AGAINST END THRUST OF NOT LESS THAN 8kgf FOR 3 SECONDS .
- 1.6 軸之迴轉止動強度：6kgf-cm 以上 .
SHAFT END STOP STRENGTH : 6kgf-cm MIN .
- 1.7 軸橫擠壓強度：鉍錫後軸前端垂直方向耐 3kgf-cm，3 秒後不可有電氣或機械上的異常 . (1.6，1.7 項並不包含鉍錫部位之浮起)
ROBUSTNESS OF SHAFT AGAINST SIDE THRUST :
THE SHAFT SHALL WITHSTAND AGAINST SIDE THRUST OF NOT LESS THAN 3kgf-cm FOR 3 SECONDS ON THE END OF THE SHAFT AT RIGHT ANGLES TO THE AXIS OF THE SHAFT AFTER MOUNTING THE RESISTOR BY SOLDERING .
- 1.8 鉍錫耐熱性：鉍錫後,不可發生顯著之鬆動接觸不良
RESISTANCE TO SOLDERING HEAT :
AFTER SOLDERING, THERE SHALL BE NO EVIDENCE OF POOR CONTACT BETWEEN RESISTANCE ELEMENT AND TERMINALS , OR ANY PHYSICAL DAMAGES AS A RESULT OF THE TEST .

- 1.9 軸承螺絲固定強度：7kgf-cm 以上。
BUSHING MOUNT STRENGTH：7kgf-cm MIN.
- 1.10 CLICK 位置：150 ± 2.5°
POSITION OF CLICK：150 ± 2.5°
- 1.11 CLICK 脫出力：30~250gf-cm
TORQUE OF CLICK：30~250gf-cm
☆ (1.10, 1.11 僅適用於附 CLICK 時)
(1.10, 1.11 IS USED FOR CLICK ONLY)

二、電器規格 ELECTRICAL CHARACTERISITICS：

- 2.1 全阻值：阻值適用範圍 1KΩ~500KΩ (容許差 ± 20%)
OVERALL RESISTANCE RANGE：1KΩ~500KΩ (TOLERANCE± 20%)
- 2.2 額定功率：B 線性 0.125W。 B 以外線性 0.06W
POWER RATING：B TAPER 0.125W。 EXCEPT B 0.06W
- 2.3 殘留阻值：1~2 端子 / 2~3 端子同。
RESIDUAL RESISTANCE：terminal 1~2 / 2~3

公稱阻抗值 (KΩ) OVERALL RESISTANCE (KΩ)	殘留阻值 (Ω) MAXIMUM ATTENUATION LEVEL (Ω)
R ≤ 20	10 以下 10MAX
20 < R ≤ 100	20 以下 20MAX
100 < R ≤ 1M	50 以下 50MAX

2.4 阻抗變化特性 TAPER：

阻抗變化 特性 Taper	測定角 度 Test point	端子 1-2 間輸出電壓 $\frac{V_{1-2}}$	端子 2-3 間輸出電壓 $\frac{V_{2-3}}$
		端子 1-3 間輸出電壓 $\frac{V_{1-3}}$ (%)	端子 1-3 間輸出電壓 $\frac{V_{1-3}}$ (%)
A	150°	10-25	
B	150°	40-60	
* C	*150°		10-25
D(10A)	150°	6-15	
* E(25C)	*150°		15-35
K(25A)	150°	15-35	
W(4B)	90±5°	5-15	
	150°	40-60	
	210±5°	85-95	
M	75±5°	40-60	
	150°	98-100	
* N	*75±5°		40-60
	*150°		98-100
* X(10C)	*150°		6-15

(註) * 記號表示自第三端子測起 * WITH RESPECT TO TERMINAL 3

- 2.5 轉動雜音：依 JIS 測定法 47mV 以下 (W : 200mv 以下).
ROTATION NOISE (REFER TO JIS) : 47mV MAX . (W : 200mV MAX) .
- 2.6 絕緣阻抗：D.C 500V 須在 100M Ω 以上
INSULATION RESISTANCE : 100M Ω MIN . AT D.C 500 VOLTS
- 2.7 耐電壓：A.C 500V 可耐 1 分鐘以上
DIELECTRIC TEST : UNITS SHALL BE DESIGNED TO WITHSTAND
500 VOLTS BETWEEN RESISTANCE ELEMENTS
AND CASE FOR A PERIOD OF ONE MINUTE
WITHOUT DAMAGE OR ARCING .
- 2.8 最高使用電壓：A.C 150V .
MAXIMUM OPERATING VOLTAGE : 150V A.C

三、耐久性能 ENDURANCE CHARACTERISTICS :

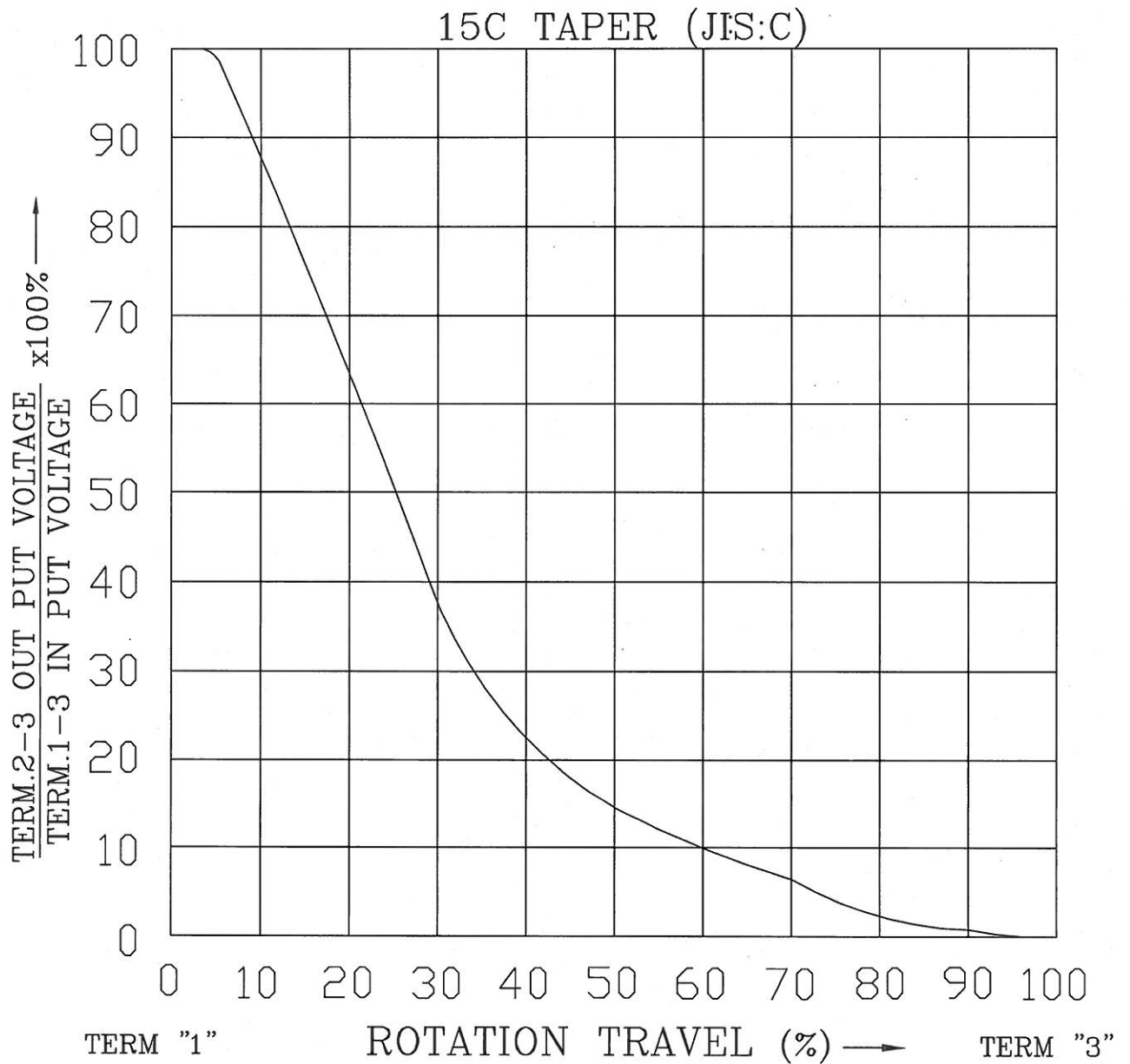
- 3.1 電阻體迴轉壽命特性：15,000 迴轉以上
ROTATIONAL LIFE : MORE THAN 15,000 CYCLES

四、其他之性能 依照 JISC 6443 普通級碳素系可變電阻器：

NOTE MEET OR EXCEED JISC 6443 REQUIREMENTS .

- 4.1 使用溫度：-10 $^{\circ}$ C~+70 $^{\circ}$ C
Operating temperature range: -10 $^{\circ}$ C~+70 $^{\circ}$ C
- 4.2 儲存溫度：-25 $^{\circ}$ C~+75 $^{\circ}$ C
Storage temperature range : -25 $^{\circ}$ C~+75 $^{\circ}$ C

STANDARD RESISTANCE TAPER



NO.	DATE	DESCRIPTION	MODEL NAME
TOL. UNLESS OTHERWISE STATED		DIMENSION	SCALE
less than	10	±0.3	
above	10 ~ 30	±0.5	
above	30 ~ 100	±1.0	
above		±5°	
		mm	
		<div style="text-align: center;">何</div> <div style="text-align: center;">90.8.21</div> <div style="text-align: center;">建志</div>	<div style="text-align: center;">王</div> <div style="text-align: center;">90.8.21</div> <div style="text-align: center;">茂松</div>
		<div style="text-align: center;">王</div> <div style="text-align: center;">90.8.21</div> <div style="text-align: center;">茂松</div>	DRAWING NO.

可變電阻無鉛焊錫與保管條件共通規格書

Common Specification of Lead-Free Soldering and Storage conditions for Potentiometers

以下焊錫條件以可變電阻置於單層 1.6mm 厚度之印刷電路板上測試為基準。

The specification below is based on testing results of 1.6mm thickness single layer printed circuit board.

1. 手工焊錫條件：

For Manual Soldering：

1-1 操作溫度最高 350°C，操作時間 3 秒以內。

To be performed within 3 seconds at 350°C or below.

2. 自動或半自動機台焊錫條件：

For Automated or Semi-Automated Soldering Equipments:

2-1 使用發泡式且比重 0.82 以上的助焊劑，發泡高度以印刷電路板厚度一半為標準，且助劑不能流入可變電阻基板表面及印刷電路板表面。

Flux of 0.82 specific gravity, applied by foam fluxer, shall be used. Foam head shall be limited to the height which is half thickness of printed circuit board to be soldered. No flux should be allowed to run up onto resistive element board of potentiometer and the surface of printed circuit board.

2-2 預熱時間不超過兩分鐘，焊錫界面（即印刷電路板底）最高預熱溫度不超過 100°C。

Regarding preheating, the entire flow duration should not exceed 2 minutes, and soldering surface temperature (undersurface of PCB) shall be settled within 100°C.

2-3 焊錫過程機台設定溫度在 260°C 以下、4 秒以內。

Solder Dipping is to be performed within 4 seconds at 260°C or below.

3. 若回轉型電位器是塑膠軸且帶有檔位，請將主軸先調整至其中一個檔位或中心檔位上才可以進行焊錫作業。

For rotary potentiometer with plastic shaft which have centre detent or multiple detents, the shaft should be settled in relevant detent position prior to soldering process.

4. 手工焊錫、自動或半自動機台焊錫不得超過一回。

Regardless of soldering facility and method, solder dipping or solder smearing must not be carried out more than 1 time.

註：本項焊錫溫度條件不適用於回流焊接作業設備。

Remarks: This specification is not recommended for and applicable in reflow soldering.

焊錫注意事項：

Caution for soldering:

如圖所示，請避免 PCB 上層表面有焊錫

Please avoid soldering on upper surface of P.C.B. as shown.

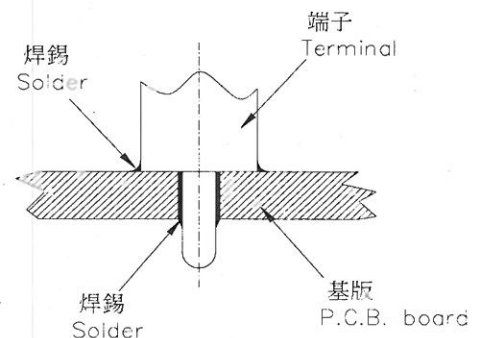
5. 保管條件(Storage conditions):

產品需儲存在原始的包裝,以及保持常溫常濕、避免陽光直射、遠離任何腐蝕性氣體。

產品需盡快完全地使用完,建議最慢不要超過

交貨後 6 個月。產品經拆封後,全部的數量都需迅速地使用完。

The products shall be stored in the original packaging and kept at room temperature and humidity, out of direct sunlight, and away from any and all corrosive gas. The products shall be completely used as soon as possible, but no longer than 6 months from the date of delivery. Once product packaging is opened, the complete quantity of such products shall be promptly used.



Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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