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DOD-HARMAN

ALPHA REFERENCE NO.

SP16050143

SPECIFICATION

PART NO.	ALPHA MODEL NAME		
	RV09BF-40E1-165K-B100K		

MODEL NAME	
MODEL NO.	

	APPROVAL						
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·							

PREPARED BY	REVIEWED BY	APPROVED BY
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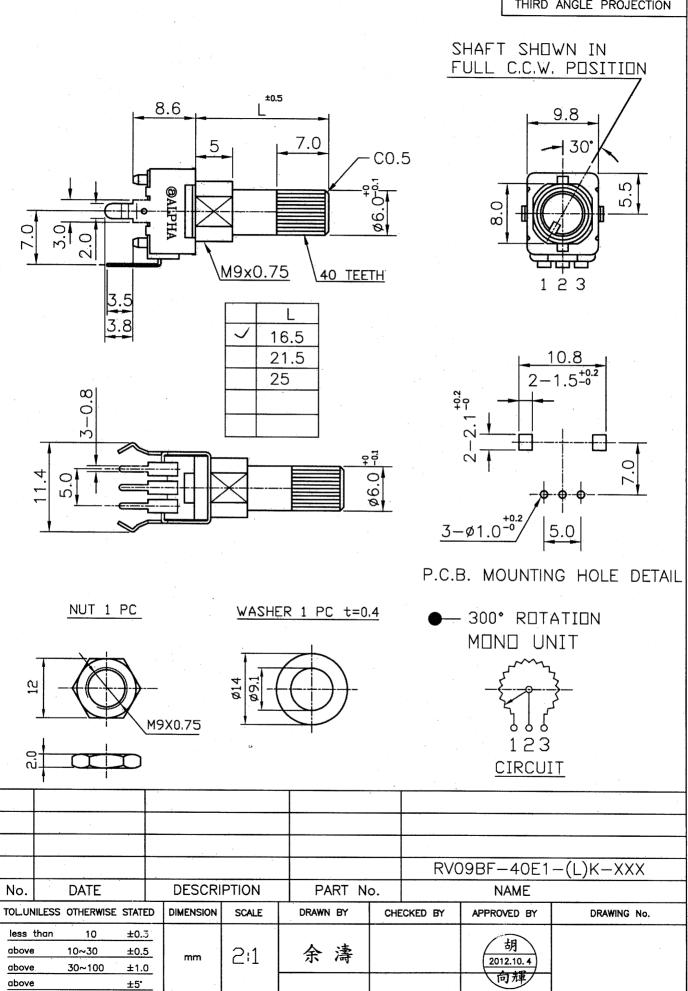
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THIRD ANGLE PROJECTION

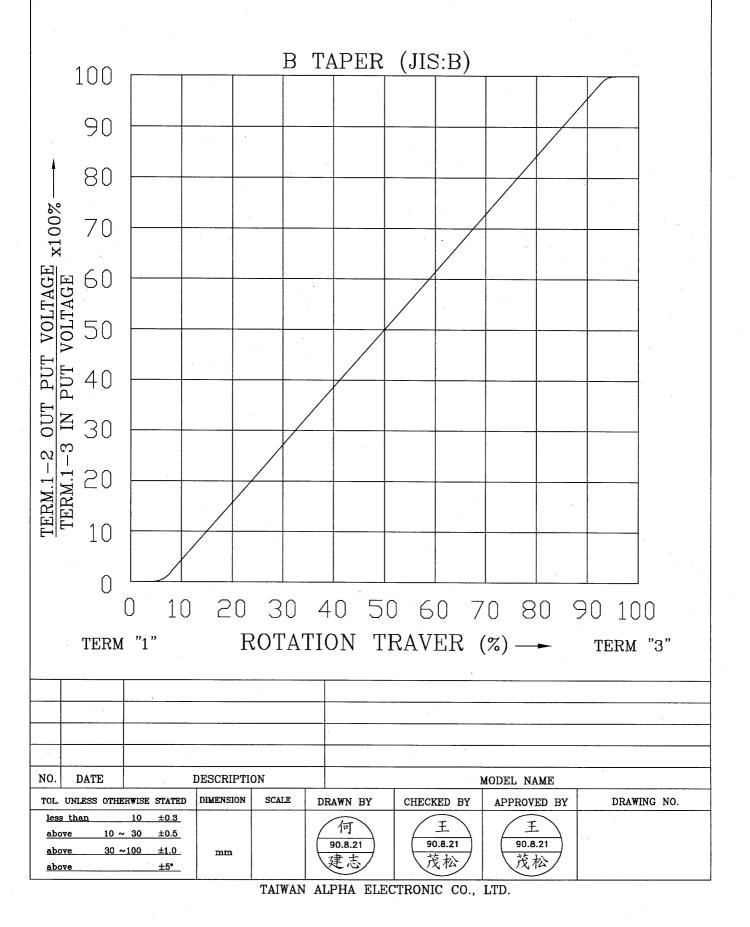


V 09E	3					
	- 、]	Environment				
1	.1	Operating temperature	range 使用溫度範圍 -10~+70℃			
1	1.2 Storage temperature range 儲存溫度範圍 -25∼+75℃					
1	.3	Test conditions	試驗條件			
		Standard atmospheric c	onditions 標準狀態			
		Unless otherwise specif	ied, the standard range of atmospheric 無特別規定之實驗及測定時以溫度			
		Conditions for making	measurements and tests is as follows: 5~35℃,相對溼度 45~85%,氣			
		Ambient temperature:5~	-35°C Relative humidity: 45~85% 壓 860~1060mbar 之標準狀態測定			
		Air pressure: 860 mbar	to 1060 mbar			
		If there is any doubt abo	out the results, measurements shall be 發生判定疑問或另有特別要求則以			
		made within the follows	ing limit 基準狀態(溫度 20±2℃,相對溼度			
		Ambient temperature:20=	±2°C Relative humidity: 60~70% 60~70%氣壓 860~1060mbar)為準			
		Air pressure: 860 mbar	to 1060 mbar 測定			
	1 . 1	Mechanical characteristic	cs 機械的性能			
		Item	Specifications			
		項目	規格			
		T-4-14-411.				
1		Total rotational angle 全迴轉角度	300°±5°			
		土地将门汉				
		Rotational torque				
2		迴轉轉矩	$10\sim100$ gf-cm(rotational speed $60^{\circ}/1$ sec.)			
		Shaft stop strength				
3	*	軸迴轉止動強度	3 kgf			
			Push and pull static load of 5 Kgf shall be applied to the shaft in the			
	Pu	sh and pull strength of shaft	axial direction for 3 seconds. No abnormality in electric characteristics and			
4		operating feeling.				
軸壓拉強度 在軸壓及拉的方向加 5 Kgf 靜負荷 3 秒鐘,作用後不會影響其電影						
			性及操作感覺。			

5	Starting torque 起動迴轉轉矩	10-100gf-cm		
6	Shaft wobble 軸晃動	A momentary load of 250gf.cm shall be applied at the point 5mm from the tip of the shaft in a direction perpendicular to the axis of shaft, the wobble is 0.8 x L/20 mm p-p max. (L: shaft length). 軸端前 5 mm 位置加 250gf.cm,晃動程度 0.8 x L/20 mm p-p 以下,(L: 軸長)。		
7	Resistance to soldering heat 銲錫耐熱性	After soldering ,there shall be no evidence of poor contact between resistance ellement and terminals, or any physical damages as a result of the test 銲錫後,不能發生顯著的鬆動或接觸不良		
8	Bushing nut tightening strength 軸套螺帽固定強度	7Kgf		
	三、Electrical characteristics 電	氣的性能		
	Item 項目	Specifications 規格		
1	Nominal total resistance 全阻抗值許容差	Terminal 1-3		
2	Rated wattage 額定功率	0.05W		
3	Maximum working voltage 最大工作電壓	AC 50V,DC20V 交流 50 伏,直流 20 伏		

and the same of th	Item 項目		Specifications 規格						
<u> </u>		Noise							
4	摺動雜音			-	Refers to JIS: C 6443 Less than 100mV 依 JIS: C 6443 測定法 100 mV 以下				
_		Insulation resis	stance		100MΩ min	at DC250	volts		
5		絕緣阻抗	. ·		DC 250V 需在	E 100 M	2以上		
	阻抗變化特性 TAPER:								
					50%) 端子 1-2 間輸出電壓 V1-2 端子 2-3 間輸出電壓 V2-3 50%) 端子 1-3 間輸出電壓 V1-3 (%) 端子 1-3 間輸出電壓 V1-3 (%)				
		A	150°		10-25				
		В	150°		40-60				
		C	150°				10-25		
6		D(10A)	150°		6-15				
		X(10C)	150°				6-15		
		E(25C)	150°			15-35			
		K(25A)	150°		15-35				
	W(4B)	90±5°		5-15					
		150°		40-60					
			210±5	0	85-95				
	Residual resistance 殘留阻值		termi	esistance at each end of the inals 1 and 2, and 2 and 3		Between 1-2 1-2 間	Between 2-3 2-3 間		
7				sured 動子在終端位置,在此時端子 · 2-3 間測定之電阻値	1-2 間,	5Ω Max 5Ω以下	5Ω Max 5Ω以下		
8	Dielectric strength 耐電壓		Apply Ac 250V for 1 minute, between individual switch terminals and body/shaft, without damage to parts、 arcing or breakdown etc 在開關端子與本體和軸間施以 AC 250V 耐 1 分鐘以上,沒有損傷、變形、絕緣破壞等情形						
9	V.R life 可變電阻壽命		10,000 Cycles						
10	Note 其他			Meet or exceed JIS:C 6443 Requirements. 依照 JIS:C 6443 普通及碳素可變電阻器					

STANDARD RESISTANCE TAPER



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爲基準.

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,焊錫接面 (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 焊錫 Terminal Solder 基版 P.C.B. board

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.