

CUSTOMER'S NAME

ALPHA REFERENCE NO.

TAYDA (THAILAND) COMPANY LIMITED

SP22120015

SPECIFICATION

PART NO.	ALPHA MODEL NAME
	RV170SF-10-15R-B5K-001

MODEL NAME

MODEL NO.

APPROVAL

PREPARED BY

REVIEWED BY

APPROVED BY



ALPHA

台灣艾華電子工業股份有限公司

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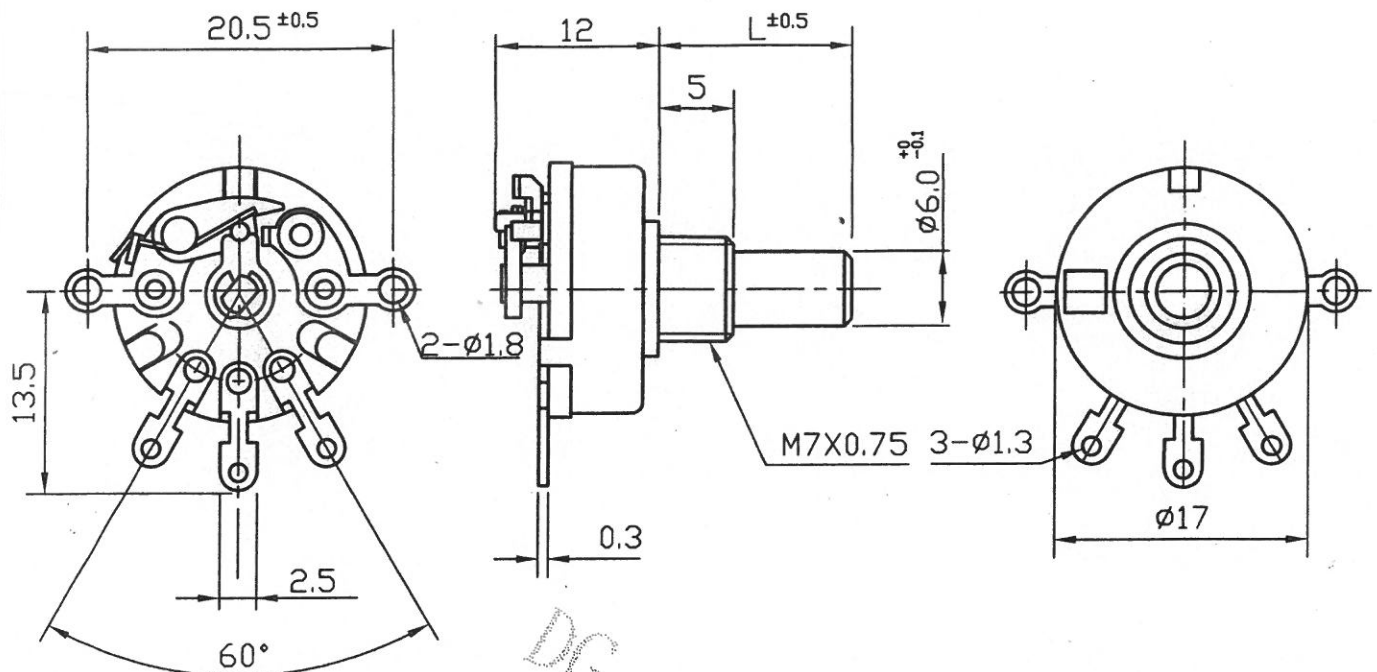
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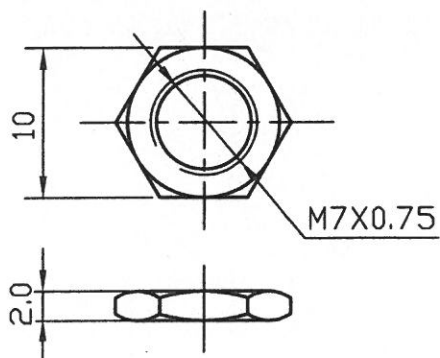
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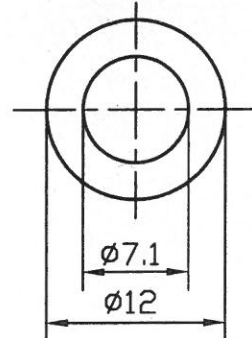


NUT 1 PC



WASHER 1 PC

t=0.4



環保

收文日

AUG 28, 2008



RV170SF-10-(L)R-XXX-001

NO.	DATE	DESCRIPTION	MODEL NAME			
TOL. UNLESS OTHERWISE STATED		DIMENSION	SCALE	DRAWN BY	CHECKED BY	APPROVED BY
less than 10		±0.3	2 1	傅 97.8.6 仕維	何 97.8.6 建志	江 97.8.6 進三
above 10 ~ 30		±0.5				
above 30 ~ 100		±1.0				
above		±5°				
		mm				

CUSTOMER'S NAME	NOTE		DATE
CUSTOMER'S PART NAME			
CUSTOMER'S DRAWING NO.			

1. MECHANICAL SPECIFICATION				2. ELECTRICAL SPECIFICATION			
1. OUTSIDE DIMENSION	append fig.			1. OVERALL RESISTANCE & TOLERANCE	terminal 1-3	5K	$\Omega \pm 20\%$
2. TOTAL ROTATION ANGLE	degree		260 $\pm 5^\circ$	2. TAP RESISTANCE & TOLERANCE	terminal 1-4		$\Omega \pm \%$
3. TOTAL TRAVEL STROKE	mm		± 0.5	3. RATED WATTAGE	temp 0~50°C		0.1 W
4. NUT WIRING STRENGTH	twisting moment		less than 7 kgf.cm	4. MAXIMUM WORKING VOLTAGE			200 V
5. SCREW TIGHTENING FORCE	torsional moment		less than kgf.cm	5. RESISTANCE TAPER MEASURING POINT & TOLERANCE			50 %point 40 ~ 60 %
6. ROTATION TORQUE	speed 60 deg/sec.		20~200 gf.cm	6. RESIDUAL RESISTANCE	terminal 1/3 side	less than 10/20	Ω
7. SLIDING FORCE	speed 20mm/sec		gf.cm	7. TAP RESIDUAL RESISTANCE	terminal 4 side	less than 100	Ω
8. SHAFT LEVER STRENGTH	pulling pushing		more than kgf.cm	8. SLIDE NOISE		less than 47	mV
9. SHAFT LEVER WOBBLE	within mm (bending moment		gf.cm)	9. INSULATION RESISTANCE	more than 50	M Ω (DC	500 V)
10. SHAFT LEVER STOP STRENGTH	more than 3 kgf.cm (static load) /		60 sec	10. WITHSTAND VOLTAGE	AC 500	V	1 minute
11. TERMINAL STRENGTH	more than 500 gf.cm / 10 \pm 1 sec			11. TRACKING ERROR			
	soldering heat 350 \pm 5°C/3sec. 200gf.cm/10 \pm 1sec			12. SWITCH CONTACT RESISTANCE	M Ω	less than 50	m Ω
	resist change within \pm 2%			13. SWITCH RATING		12V DC	1A
12. CLICK POSITION & TORQUE	gf.cm						
13. SWITCH WORKING ANGLE (STROKE)	degree (mm)		30 \pm 10°				
14. SWITCH WORKING TORQUE (FORCE)	gf .cm		70-400gf.cm				
15. SWITCH CIRCUIT			S.P.S.T				

SHAFT

MATERIAL	ANGLE OF FLAT OR SLOT θ	DIMENSION		
		M	L	F
	at		15	

3. USABLE TEMPERATURE RANGE: from -10°C to 70°C

4. VR LIFE

15,000 \pm TIMES

RESISTANCE CHANGE: within \pm %

SLIDE NOISE : less than mV

SW LIFE 10,000 \pm TIMES

CONTACT RESISTANCE: less than m Ω

REFERENCE NO.

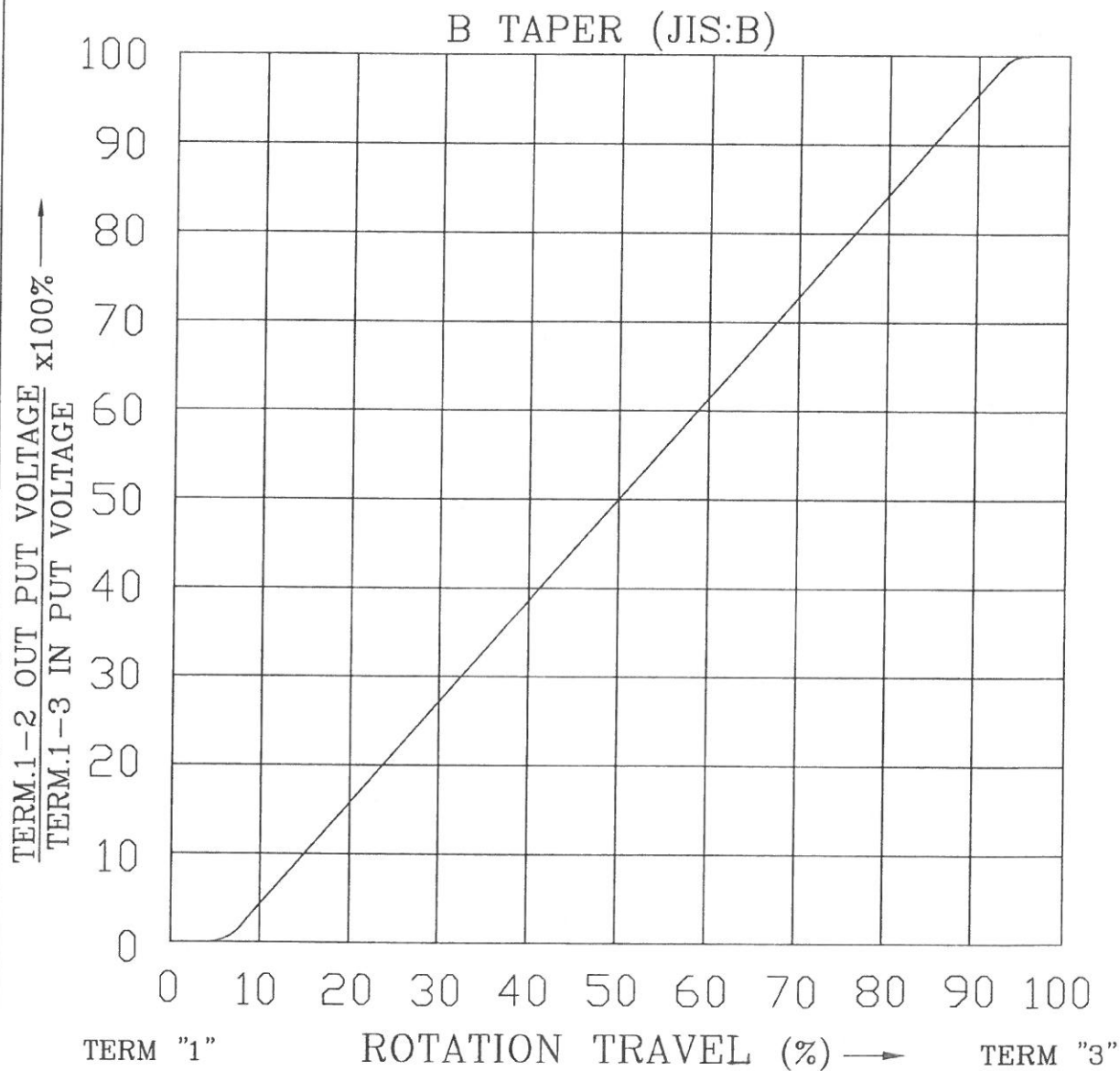
REV

MODEL NAME

DRAWING NO.

RV170SF-10-15R-B5K-001

STANDARD RESISTANCE TAPER



NO.	DATE	DESCRIPTION			MODEL NAME		
TOL. UNLESS OTHERWISE STATED		DIMENSION	SCALE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NO.
less than 10 ±0.3		mm		何 90.8.21 建志	王 90.8.21 茂松	王 90.8.21 茂松	
above 10 ~ 30 ±0.6							
above 30 ~100 ±1.0							
above ±5°							

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

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.

