<b>CUS</b>	T0	MER	'S	NAME
------------	----	-----	----	------

ALPHA REFERENCE NO.

SP15110148

## SPECIFICATION

PART NO.	ALPHA MODEL NAME								
RA3041F-20-15DA-XXX-C									

MODEL NAME	
MODEL NO.	•

	APP	ROVAL		
			•	

PREPARED BY	REVIEWED BY	APPROVED BY
登下 2015.11.25 彩霞		李 2015 11- 25. 延路



## 台灣艾華電子工業股份有限公司

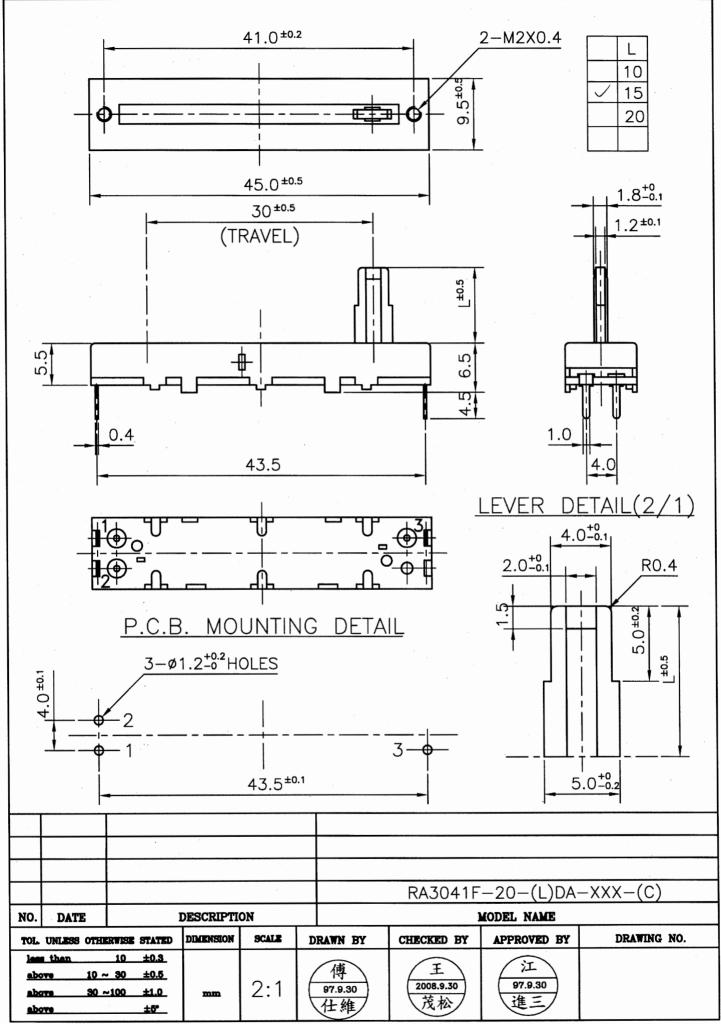
33045 桃園市桃園區中正路 1221 號 9 樓 TAIWAN ALPHA ELECTRONIC CO., LTD.

9F, No. 1221, Chung Cheng Rd., Taoyuan Dist., Taoyuan City, 330 Taiwan

Tel: 886-3-3577799

Fax: 886-3-3577700

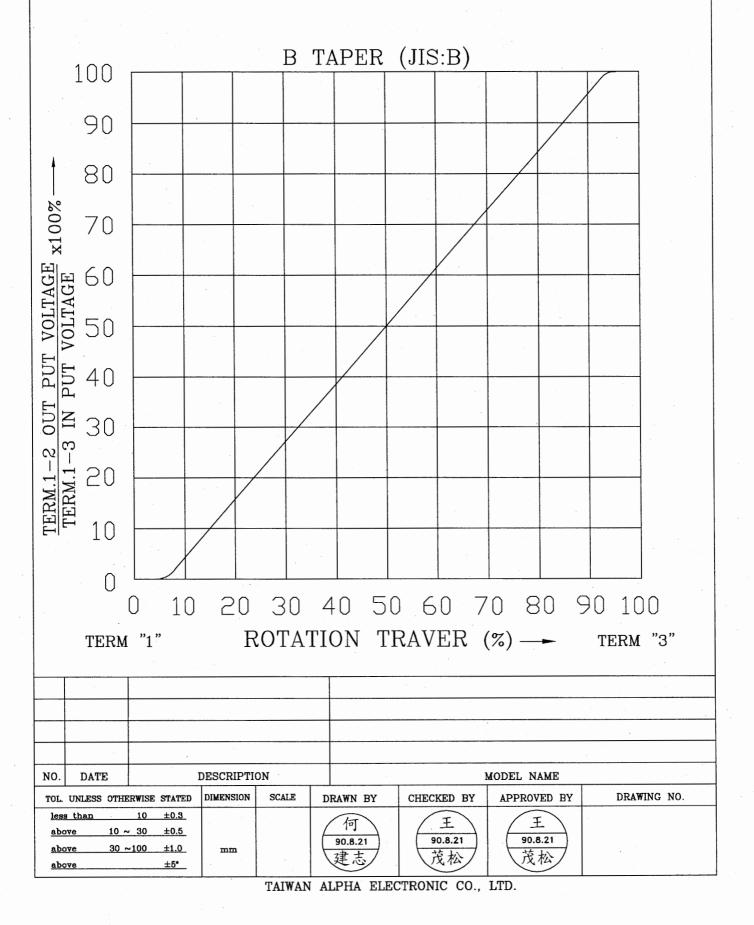
EMAIL: sales@taiwanalpha.com.tw URL: http://www.taiwanalpha.com



TAIWAN ALPHA ELECTRONIC CO., LTD.

CUSTOMER'S NAME					NOTE							:	I	DATE		
CUSTOMER'S PART NAME	·															
CUSTOMER'S DRAWING NO.																
1. MECHANICAL SPECIFI	CATIO	ON			'			2. ELECTR	ICAL S	PECIF	ICATION	1		,		
1. OUTSIDE DIMENSION		app	end fig.					1. OVERALL RE	ESISTANO	CE & TOL	ERANCE	termin	al 1-3	XXX	Ω± 2	0 %
2. TOTAL ROTATION ANGLE		- d	egree			-	±5°	2. TAP RESIST.	ANCE &	TOLERA	NCE	termin	al 1-4		Ω±	%
3. TOTAL TRAVEL STROKE			mm		3	30	±0.5	3. RATED WATTAGE			temp 0	~50°C		0.2	W	
4. NUT WIRING STRENGTH		twistin	g moment	t	less tha	n .	kgf.cm	4. MAXIMUM WORKING VOLTAGE			A			200	V	
5. SCREW TIGHTENING FORCE		torsion	al momen	t	less that	n	kgf.cm	5. RESISTANCE TAPER MEASURING POINT					50	%	6point	
6. ROTATION TORQUE		speed 6	60 deg/sec	• .			gf.cm	& TOLERANC	E					40	~ 6	50 %
7. SLIDING FORCE		speed (	20mm/sec	;	30~2	250	gf.cm	6. RESIDUAL I	6. RESIDUAL RESISTANCE			terminal	1/3 side	less than	20/30	Ω
8. SHAFT LEVER STRENGTH		pulling	g pushing		more th	an	kgf.cm	7. TAP RESIDU	JAL RES	ISTANCI	3	terminal	4 side	less than	100	Ω
9. SHAFT LEVER WOBBLE	2(	2XL)/20mr	m Max.(L:I	LEVE	R LENGTI	H BO	TH SIDES)	8. SLIDE NOIS	Е					less than	71	mV
10. SHAFT LEVER STOP STRENG	ГН  т	ore than	5 kgf.c	m (sta	atic load)	/ 6	50 sec	9. INSULATION	N RESIS	TANCE		more than	100	$M\Omega(DC$	250	V)
11. TERMINAL STRENGTH soldering h				0 gf.cm / 10 ± 1 sec				10. WITHSTAND VOLTAGE			AC	300	V	1 n	ninute	
		soldering heat 350±5°C/3sec. 2 resist change within ± 2%		200gf.cm/10 ±1sec		11. TRACKING ERROR										
i .			2/0				12. SWITCH CO	NTACT	RESISTA	NCE	M	Ω	less than		$\mathbf{m}\Omega$	
12. CLICK POSITION & TORQUE	ONE		ee (mm)				13. SWITCH RATING									
13. SWITCH WORKING ANGLE (STR	1		f.cm			•	-									
14. SWITCH WORKING TORQUE (FO	KCE)					-	· · · · · · · · · · · · · · · · · · ·	3. USABLE	TEMP	ERATU	RE RAN	GE: from	–10°C to	o 70°C		
13. SWITCH CIRCUIT								4. VR LIFE	15,0	00 ±		TIMES				
SHAFT									RES	ISTANC	CE CHAN	IGE: with	in ±		%	
	OI OT		DI	) (E)	IGIONI				SLID	E NOIS	SE : less t	han			mV	r .
$\begin{array}{c} \text{ANGLE OF FLAT OR} \\ \text{MATERIAL} \ \theta \end{array}$	SLOT	_			ISION			SW LIFE		<u>±</u>		TIMES				
	<i>a</i>	at M	L	,	F	- 1	Γ		CON	TACT 1	RESISTA	NCE: less	than		m	Ω
			15	5									<b>522-522</b>			
			,		REFE	ERENCE	NO.				RE	V				
MODEL NAME DRA		AWING	NO.													
RA3041F-20-15DA	-B100	K														
			1					<u> </u>				<u> </u>				

## 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.

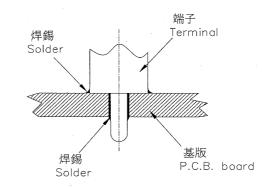
焊錫注意事項:

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



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.