CUSTO	MER'S	NAME
--------------	-------	------

ALPHA REFERENCE NO.

SP15110147

SPECIFICATION

PART NO.	ALPHA MODEL NAME					
	RA300BF-20-15C2-BXXX					

MODEL NAME		
	-	
MODEL NO.		

	APPROVAL							
				•				

PREPARED BY	REVIEWED BY	APPROVED BY
登序 2015.11. 25 彩霞		李 加5 11- 25, 延珍



台灣艾華電子工業股份有限公司

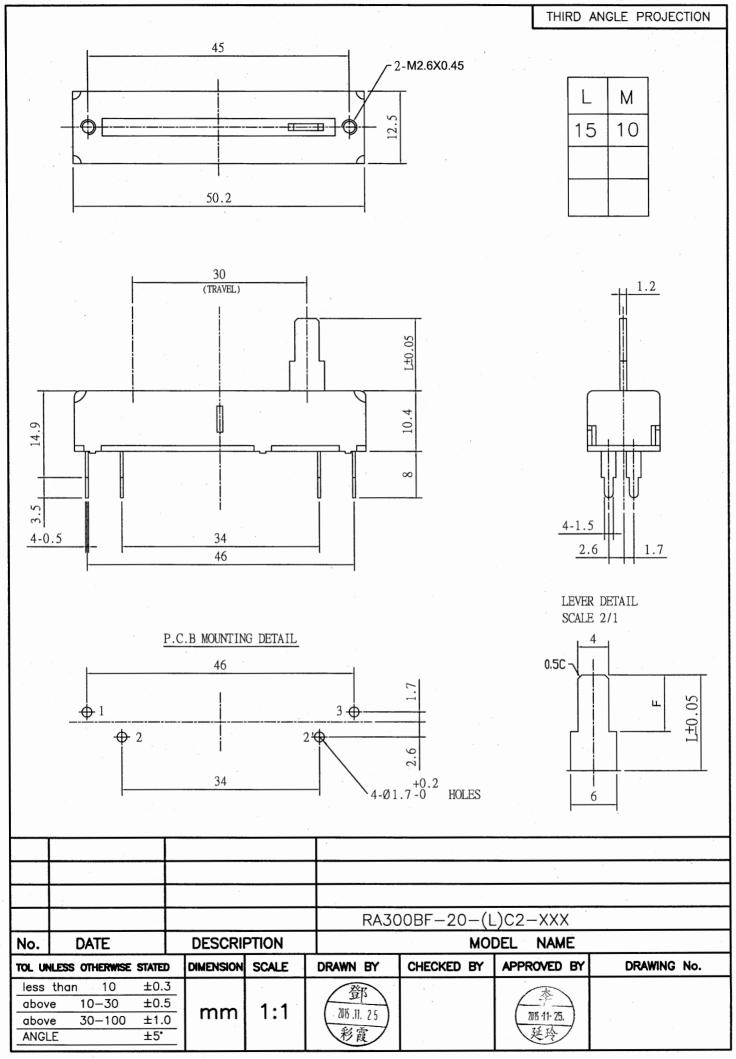
33045 桃園市桃園區中正路 1221 號 9 樓 TAIWAN ALPHA ELECTRONIC CO., LTD.

 $9F,\,\text{No.}\,1221,\,\text{Chung Cheng Rd.},\,\text{Taoyuan Dist.},\,\text{Taoyuan City}\,,330\,\,\text{Taiwan}$

Tel: 886-3-3577799

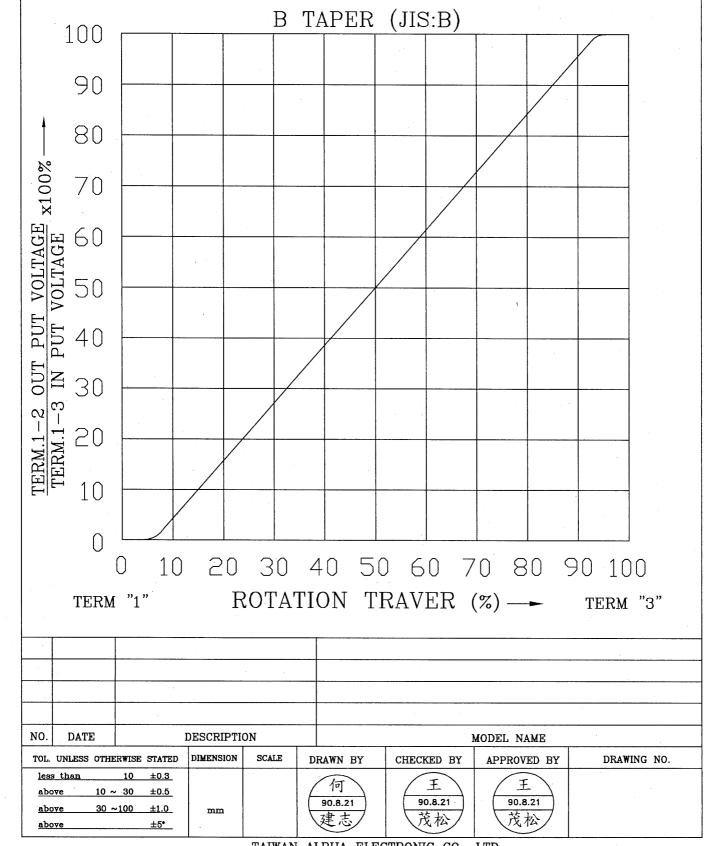
Fax: 886-3-3577700

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



CUSTOMER'S NAME		•		NOTE						DATE	
CUSTOMER'S PART NAME											
CUSTOMER'S DRAWING NO.											
1. MECHANICAL SPECIF	ICATI	ON				2. ELECTR	ICAL SPEC	IFICATION	1		
1. OUTSIDE DIMENSION		append	fig.			1. OVERALL RESISTANCE & TOLERANCE			terminal 1-3	XXX	Ω± 20 %
2. TOTAL ROTATION ANGLE		degre	e		±5°	2. TAP RESIST	ANCE & TOL	ERANCE	terminal 1-4		Ω± %
3. TOTAL TRAVEL STROKE		mm		30	±0.5	3. RATED WAT	TTAGE		temp 0~50°C		0.2 W
4. NUT WIRING STRENGTH		twisting m	oment	less than	kgf.cm	4. MAXIMUM	4. MAXIMUM WORKING VOLTAGE		AC		200 V
5. SCREW TIGHTENING FORCE		torsional m	oment	less than	kgf.cm	5. RESISTANCE	TAPER MEASU	URING POINT		50) %point
6. ROTATION TORQUE		speed 60 de	eg/sec.		gf.cm	& TOLERANC	E			40	~ 60 %
7. SLIDING FORCE		speed 20m	m/sec	20~26	0 gf.cm	6. RESIDUAL I	RESISTANCE		terminal 1/3 side	less than	20/30 Ω
8. SHAFT LEVER STRENGTH		pulling pu	shing	more than	kgf.cm	7. TAP RESIDU	JAL RESISTAN	NCE	terminal 4 side	less than	100 Ω
9. SHAFT LEVER WOBBLE	2	(2XL)/20mm Ma	ıx.(L:LEVE	R LENGTH I	BOTH SIDES)	8. SLIDE NOIS	SE .			less than	47 mV
10. SHAFT LEVER STOP STRENG				atic load) /	60 sec	9. INSULATION	N RESISTANC	CE .	more than 50	$M\Omega(DC$	500 V)
·		nore than 500				10. WITHSTAND VOLTAGE			AC 300	V	1 minute
11. TERMINAL STRENGTH		oldering heat 350 esist change wi		200gf.cm/10 ±	lsec	11. TRACKING ERROR					
12. CLICK POSITION & TORQUE	i	gf.cm				12. SWITCH CO	NTACT RESIS	STANCE	ΜΩ	less than	$m\Omega$
13. SWITCH WORKING ANGLE (ST	i	degree (r				13. SWITCH RA	TING				
14. SWITCH WORKING TORQUE (F	- 1	gf.cm				÷					
15. SWITCH CIRCUIT	JRCL)	8			·		TEMPERA		GE: from –10°C t	o 70°C	
13. 5 WITCH CIRCUIT	,			,		4. VR LIFE	15,000	<u>±</u>	TIMES		
SHAFT							RESISTA	NCE CHAN	NGE: within ±		0/0
ANGLE OF FLAT O	D CI OT		DIMEN	ICIONI	<u></u>		SLIDE N	OISE : less t	han		mV
MATERIAL θ	K SLOT					SW LIFE		<u>±</u>	TIMES		
	•	at M	L	F	T		CONTAC	T RESISTA	NCE: less than		$\mathbf{m}\Omega$
			15								
,				\\		REFI	ERENCE NO.			RE	V
MODEL NA	ME		DRA	AWING N	O.						
RA300BF-20-15C	2-B100)K									
			1			L					

STANDARD RESISTANCE TAPER



可變電阻無鉛焊錫與保管條件共涌規格書

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.

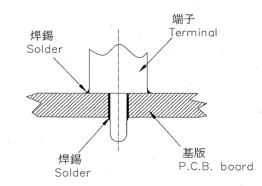
焊錫注意事項:

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.