

CUSTOMER'S NAME

Mouser Electronics

ALPHA REFERENCE NO.

SP22030098




SPECIFICATION

PART NO.	ALPHA MODEL NAME
	RV120DF-20-15A-A50K

MODEL NAME

MODEL NO.

APPROVAL

PREPARED BY	REVIEWED BY	APPROVED BY
 鄧彩霞 2022.3.24	 李延玲 2022-3-24	 章祖衛 2022.3.24



ALPHA

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

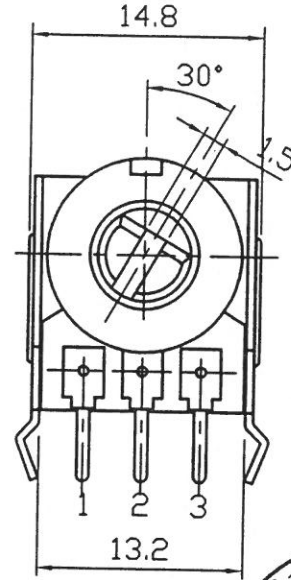
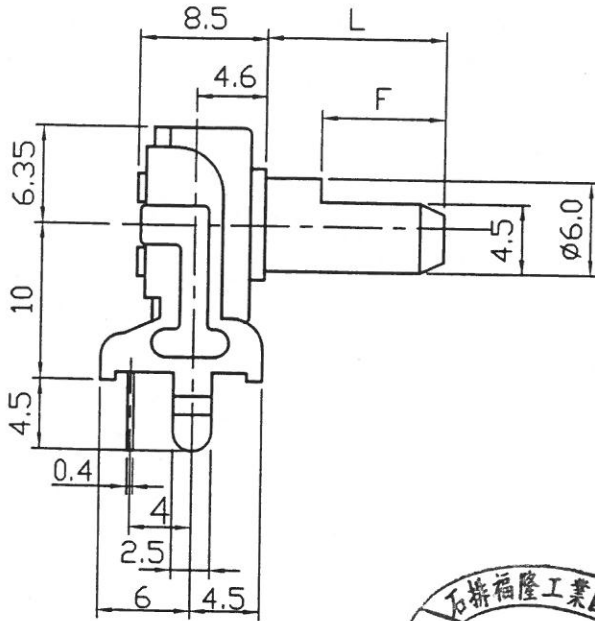
Tel: 886-3-3577799

Fax: 886-3-3577700

EMAIL: sales@taiwanalpha.com.tw

URL: <http://www.taiwanalpha.com>

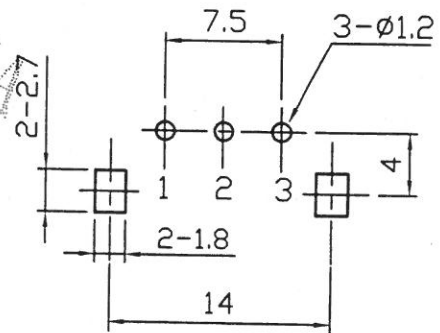
SHAFT SHOWN IN FULL C.C.W. POSITION



石碇福隆工業區艾華電子廠
FEB 17 2006
收文日

艾華電子工業股份有限公司
文管中心
95.1.25
發行

	A	L	F
	7A	7	7
	10A	10	7
	10A-8	10	8
✓	15A	15	12
	15A-7	15	7
	20A	20	12
	25A	25	12



P.C.B. MOUNTING HOLE DETAIL

						RV120DF-20-(L)A-XXX	
No.	DATE	DESCRIPTION	PART No.	NAME	NOTE		
TOL. UNLESS OTHERWISE STATED		DIMENSION	SCALE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING No.
less than	10	±0.3	2 1	張月琴	95.1.24	楊	
above	10~30	±0.5					
above	30~100	±1.0					
above		±5'					

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

1. MECHANICAL SPECIFICATION

1. OUTSIDE DIMENSION	append fig.	
2. TOTAL ROTATION ANGLE	degree	300 ±5°
3. TOTAL TRAVEL STROKE	mm	±0.5
4. NUT WRING STRENGTH	twisting moment	less than 6 kgf.cm
5. SCREW TIGHTENING FORCE	torsional moment	less than kgf.cm
6. ROTATION TORQUE	speed 60 deg/sec.	20-150 gf.cm
7. SLIDING FORCE	speed 20mm/sec	gf.cm
8. SHAFT LEVER STRENGTH	pulling pushing	more than 4 kgf.cm
9. SHAFT LEVER WOBBLE	within mm (bending moment)	gf.cm
10. SHAFT LEVER STOP STRENGTH	more than 4 kgf.cm (static load) / 10 sec	
11. TERMINAL STRENGTH	more than 500 gf.cm / 10 ± 1 sec soldering heat 350±5°C/3sec. 200gf.cm/10 ±1sec resist change within ± 2%	
12. CLICK POSITION & TORQUE	gf.cm	
13. SWITCH WORKING ANGLE (STROKE)	degree (mm)	
14. SWITCH WORKING TORQUE (FORCE)	gf.cm	
15. SWITCH CIRCUIT		

2. ELECTRICAL SPECIFICATION

1. OVERALL RESISTANCE & TOLERANCE	terminal 1-3	50K	Ω±	20	%
2. TAP RESISTANCE & TOLERANCE	terminal 1-4		Ω±		%
3. RATED WATTAGE	temp 0~50°C		0.02		W
4. MAXIMUM WORKING VOLTAGE			50		V
5. RESISTANCE TAPER MEASURING POINT & TOLERANCE			10	~	25 %
6. RESIDUAL RESISTANCE	terminal 1/3 side		less than	10/20	Ω
7. TAP RESIDUAL RESISTANCE	terminal 4 side		less than	100	Ω
8. SLIDE NOISE			less than	47	mV
9. INSULATION RESISTANCE	more than	50	MΩ(DC)	250	V
10. WITHSTAND VOLTAGE	AC	250	V	1	minute
11. TRACKING ERROR					
12. SWITCH CONTACT RESISTANCE	MΩ		less than		mΩ
13. SWITCH RATING					

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

4. VR LIFE 15,000 ± TIMES

RESISTANCE CHANGE: within ± %

SLIDE NOISE : less than mV

SW LIFE ± TIMES

CONTACT RESISTANCE: less than mΩ

SHAFT

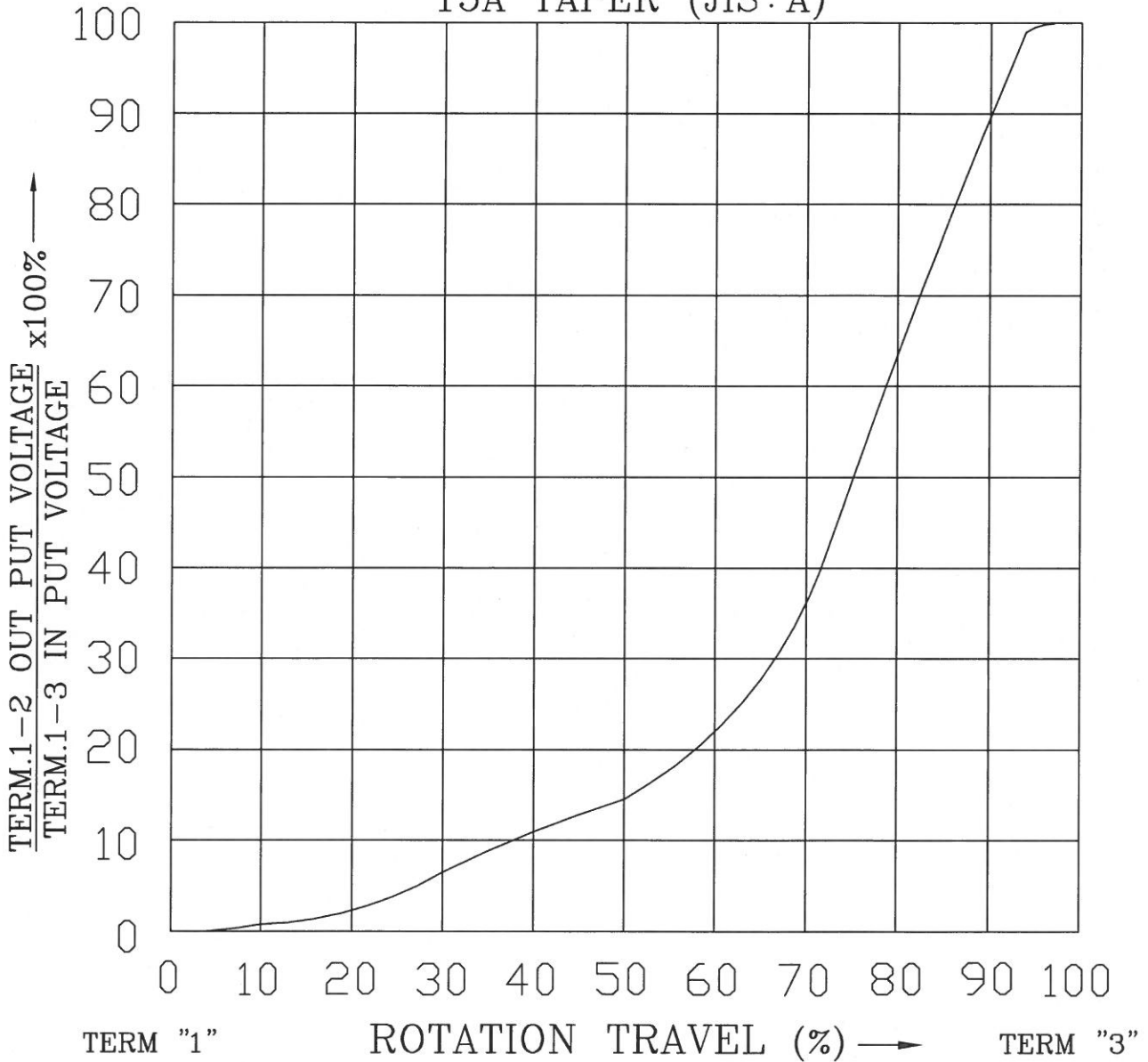
MATERIAL	ANGLE OF FLAT OR SLOT θ	DIMENSION		
		M	L	F
	at	15		T

MODEL NAME	DRAWING NO.
RV120DF-20-15A-A50K	

REFERENCE NO.	REV

STANDARD RESISTANCE TAPER

15A TAPER (JIS: A)



NO.		DATE		DESCRIPTION		MODEL NAME	
TOL. UNLESS OTHERWISE STATED		DIMENSION		SCALE		DRAWN BY	
less than 10 ±0.3		mm				何	
above 10 ~ 30 ±0.5						90.8.21	
above 30 ~ 100 ±1.0						建志	
above ±5'							
				CHECKED BY		APPROVED BY	
				王		王	
				90.8.21		90.8.21	
				茂松		茂松	
						DRAWING NO.	