

滑動型可變電阻器編碼規則

RA 20 32 F -2 0 2 T -085 DA 1 -A 10K -C 1 XXX
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1. Product Line

RA Slide Potentiometer

2. Travel Distance of Lever

Code	Travel
10	10mm
20	20mm
25	25mm
f	f
00	100mm

3. Model Code

4. RoHS version

F indicates RoHS compliance

5. Type of Terminal

Code	Type of Terminal
1	Solder Lug Type
2	P.C.B Type(Vertical Type)
3	P.C.B Type(Horizontal Type)

6. Derivatives of Terminal Types

7. Derivatives of Model Code

8. Type of Tap (T: Center Tap)

9. Length of Lever

Code	Lengthmm
04	4.0mm
085	8.5mm
10	10.0mm

10. Type of Lever

11. Derivative of Lever Type

12. Resistance Curve (TAPER)

13. Resistance Value

14. Number of Click

Code	Clicks
0	None
C	Center Click
3	3-Click
7	7-Click
D	11-Click
G	End Click

15. Type of Dust Cover

Code	Dust Cover
0	None
1	Dust Cover 1
2	Dust Cover 2

16. Serial No.

訂單指定事項：

開立訂單時，用途請依下表記載予以指定製品之規格詳細記載並確認之。

項目：

- 機種及滑動行程。
- 公稱阻值及線性要求。
- 柄型式及長度。
- 段點有無、段點位置。
- 中間抽頭有無、抽頭位置。
- 音量用或其他。
- 手焊錫或錫爐焊錫。
- LED顏色(發光型)

ORDERING INSTRUCTIONS：

WHEN PLACING YOUR ORDER, PLEASE SPECIFY THE FOLLOWING ITEMS.

ITEMS：

- MODEL AND TRAVEL DISTANCE.
- NORMAL RESISTANCE AND TAPER.
- LEVER STYLE AND LENGTH.
- WITH CLICK OR WITHOUT CLICK, CLICK POSITION.
- WITH TAP OR WITHOUT TAP, TAP POSITION.
- FOR VOLUME CONTROL OR OTHERS.
- MANUAL SOLDERING OR DIP SOLDERING.
- LED COLOR FOR ILLUMINATED TYPE.

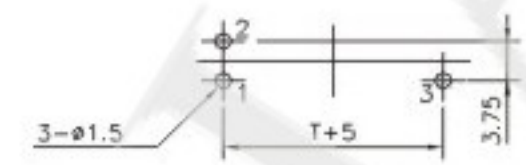
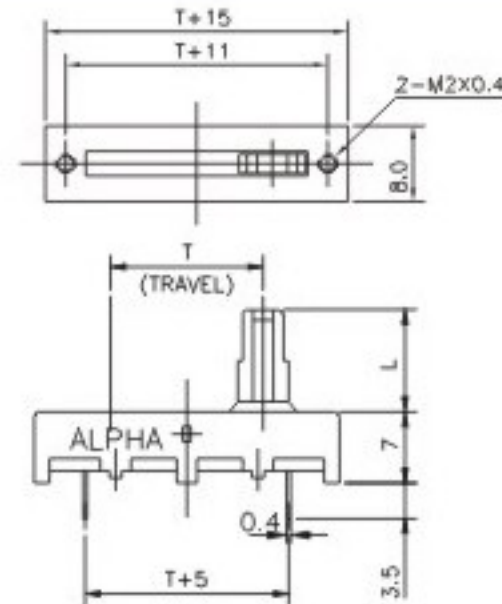
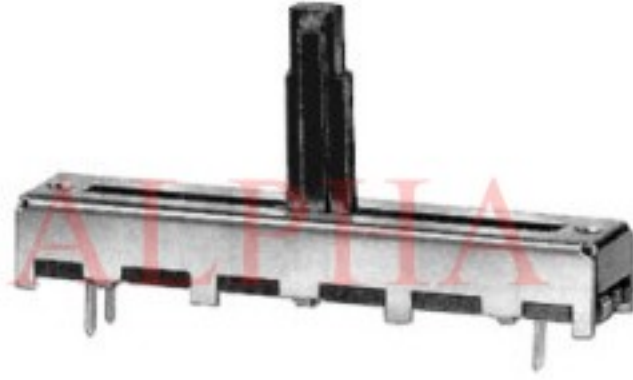
LOW-PROFILE TYPE

Model

Outline Drawing

Mounting Hole Detail

RA◇◇43F-20(Mono)

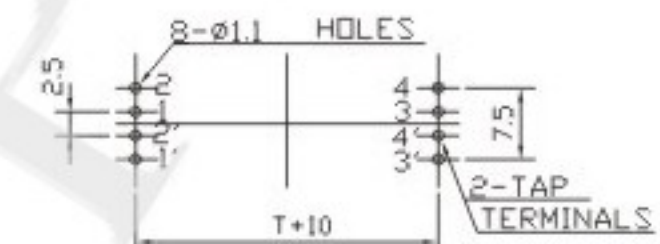
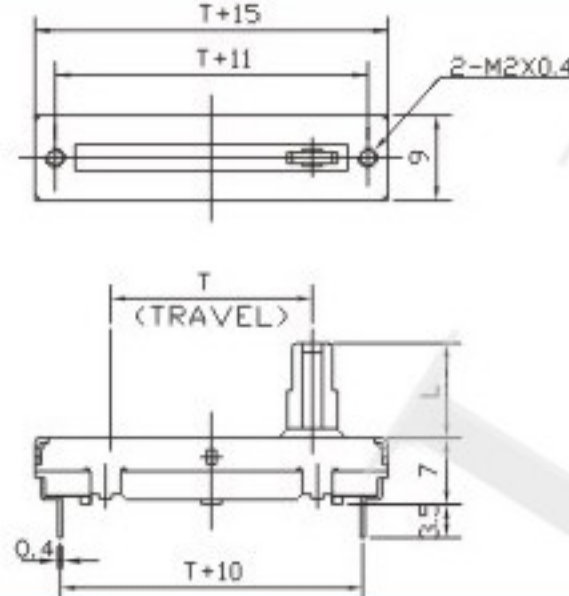


P.C.B. Mounting Hole Detail

Travel distance ◇◇ mm

15	20	25	30
45	60		

RA◇◇44F-201(Mono) RA◇◇44F-20 (Dual) RA◇◇44F-20T(With Tap)

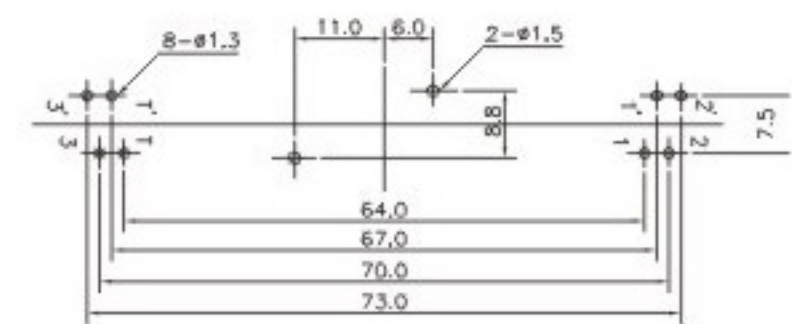
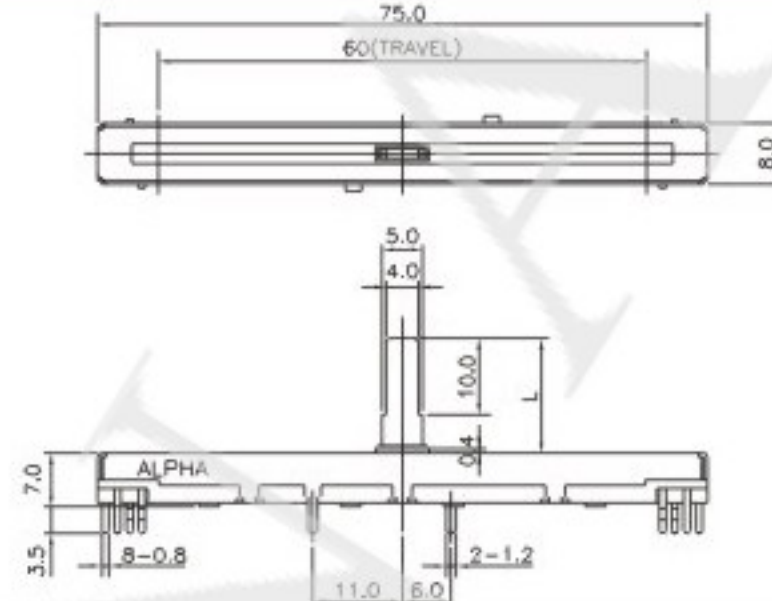


P.C.B. Mounting Hole Detail

Travel distance ◇◇ mm

20	25	30	45	60
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RA6046F-201(Mono) RA6046F-20 (Dual)



Short terminals:

3 and T, 3' and T'

P.C.B. Mounting Hole Detail

Lever Style

Model	RA◇◇ 43F Series															
Lever Style	C1					D1			DA		AA			EB		
Dimension																

1. "T" Shown in the outline drawing and P.C.B. Mounting Hole Detail Represent the amount of travel.

2. Tap is available for the above series

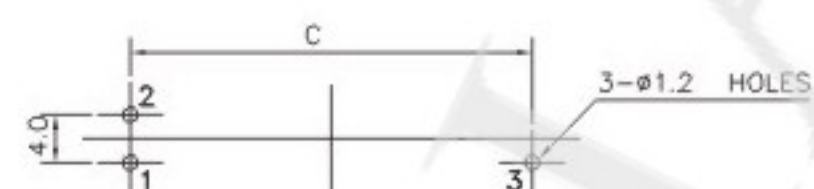
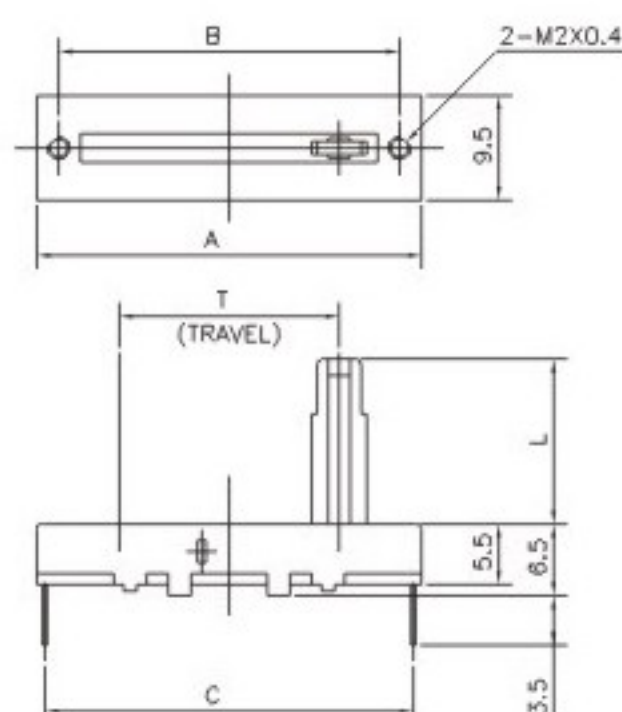
3. BLACK, RED, GREEN, ORANGE OR WHITE Markers are available for "EB" Type Lever

Model

Outline Drawing

Mounting Hole Detail

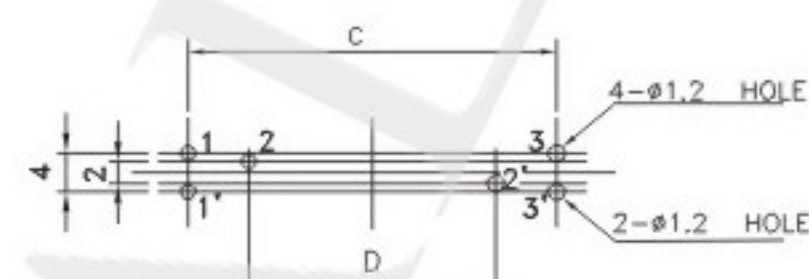
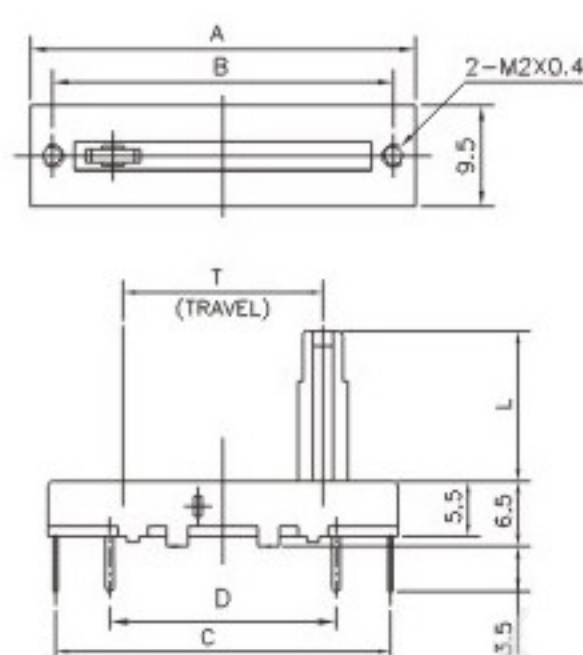
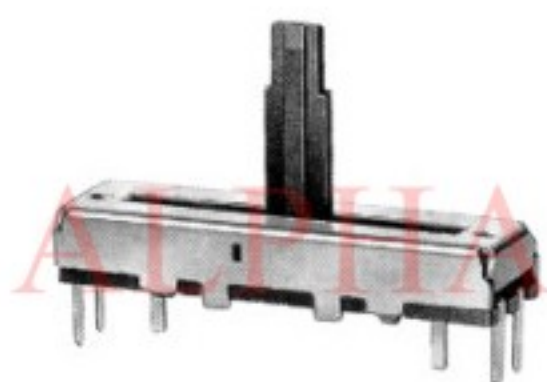
RA^{2031F}_{3041F}-20(Mono)



P.C.B Mounting Hole Detail

MODEL	T	A	B	C
RA2031-20	20	35	31	33.5
RA3041-20	30	45	41	43.5

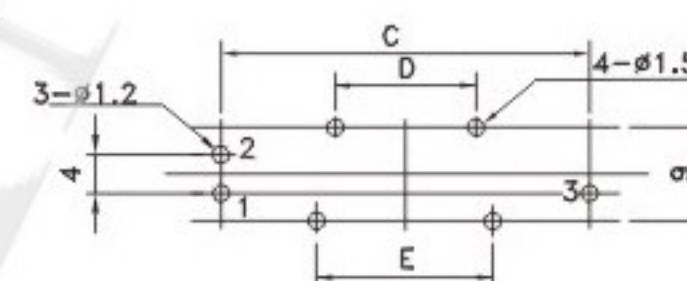
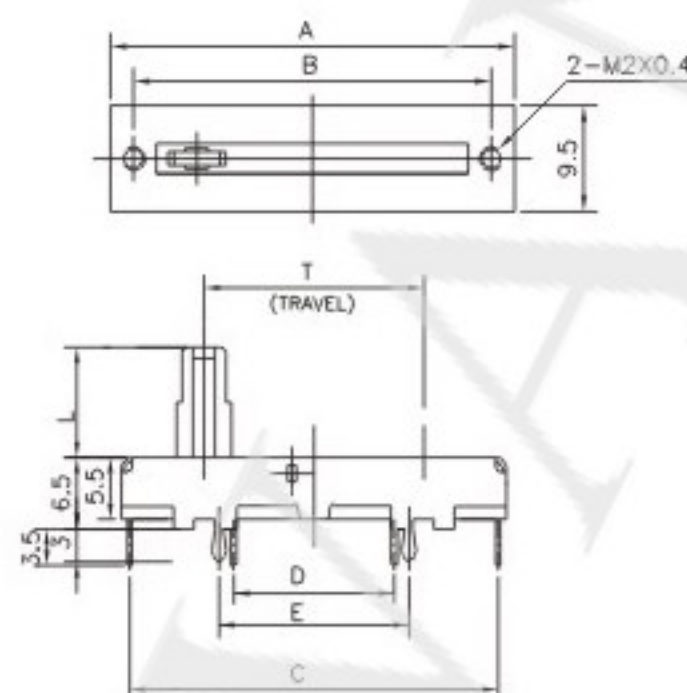
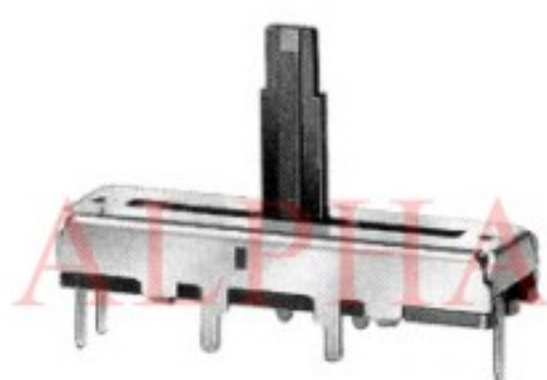
RA^{2032F}_{3042F}-20(Dual)



P.C.B Mounting Hole Detail

MODEL	T	A	B	C	D
RA2032-20	20	35	31	33.5	23
RA3042-20	30	45	41	43.5	33

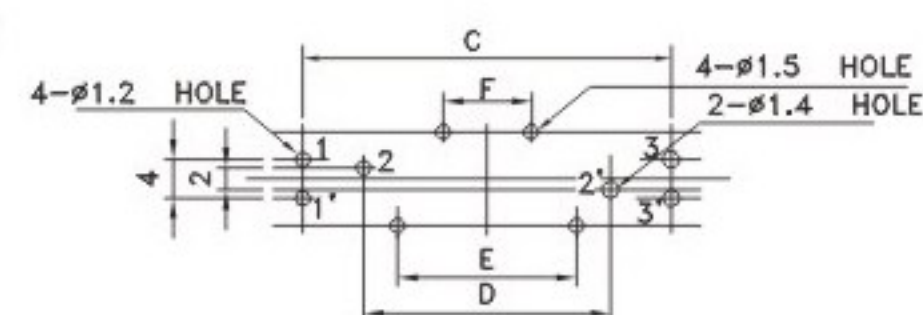
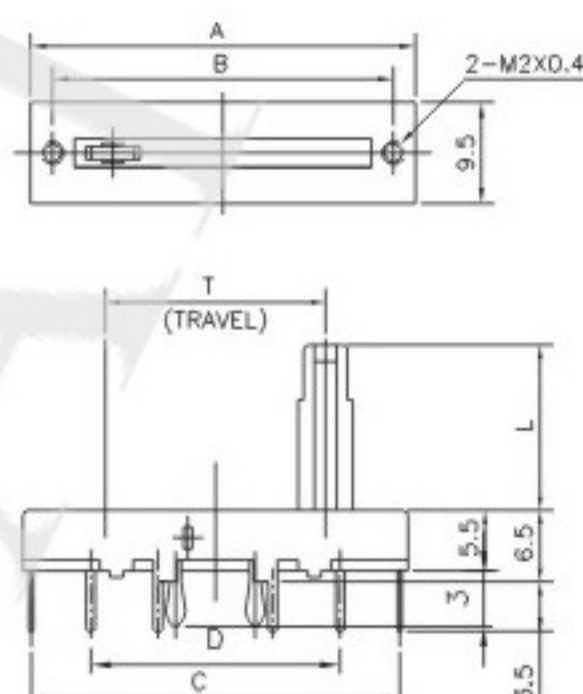
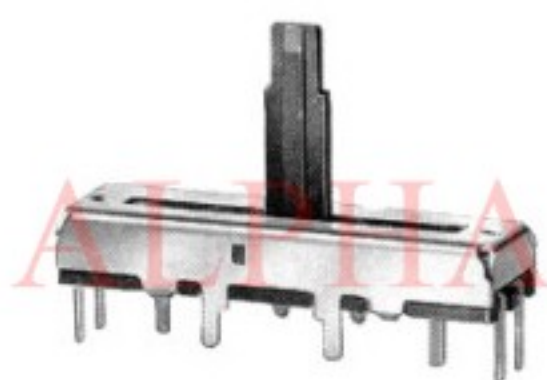
RA^{2031F}_{3041F}-202(Mono)



P.C.B Mounting Hole Detail

MODEL	T	A	B	C	D	E
RA2031-202	20	35	31	33.5	6.2	9.8
RA3041-202	30	45	41	43.5	16.2	19.8

RA^{2032F}_{3042F}-202(Dual)



P.C.B Mounting Hole Detail

MODEL	T	A	B	C	D	E	F
RA2032-202	20	35	31	33.5	23	9.8	6.2
RA3042-202	30	45	41	43.5	33	19.8	16.2

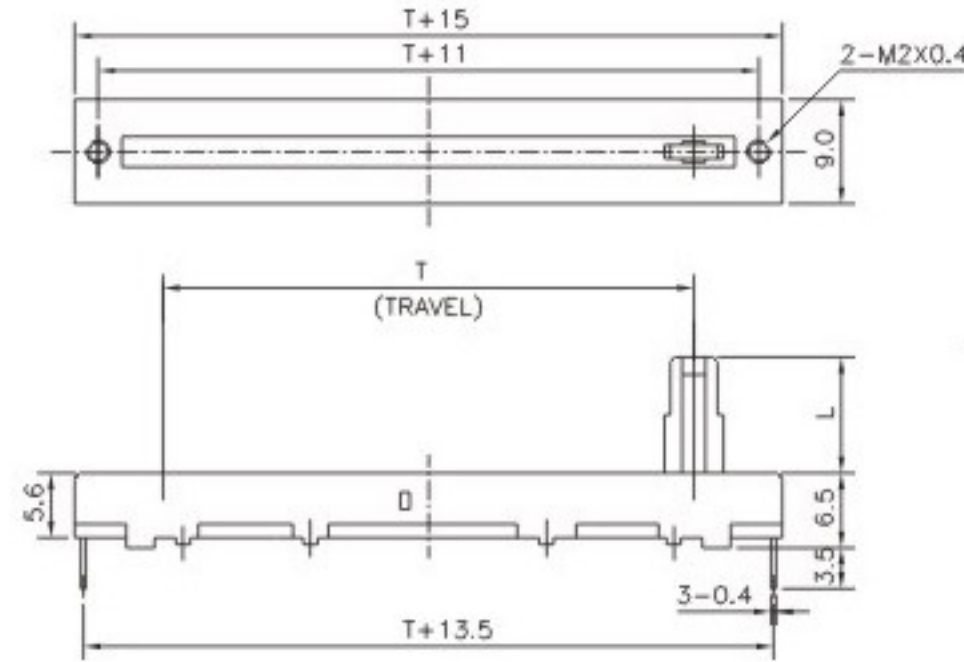
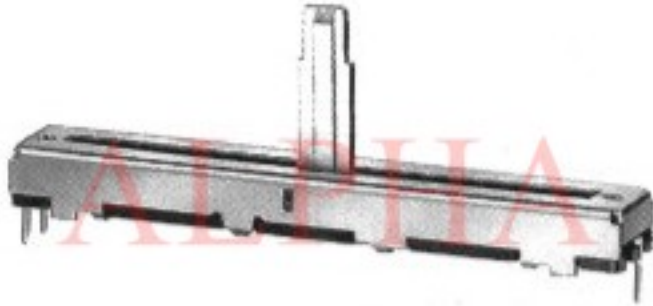
LOW-PROFILE TYPE

Model

Outline Drawing

Mounting Hole Detail

RA◇◇21F-20(Mono)



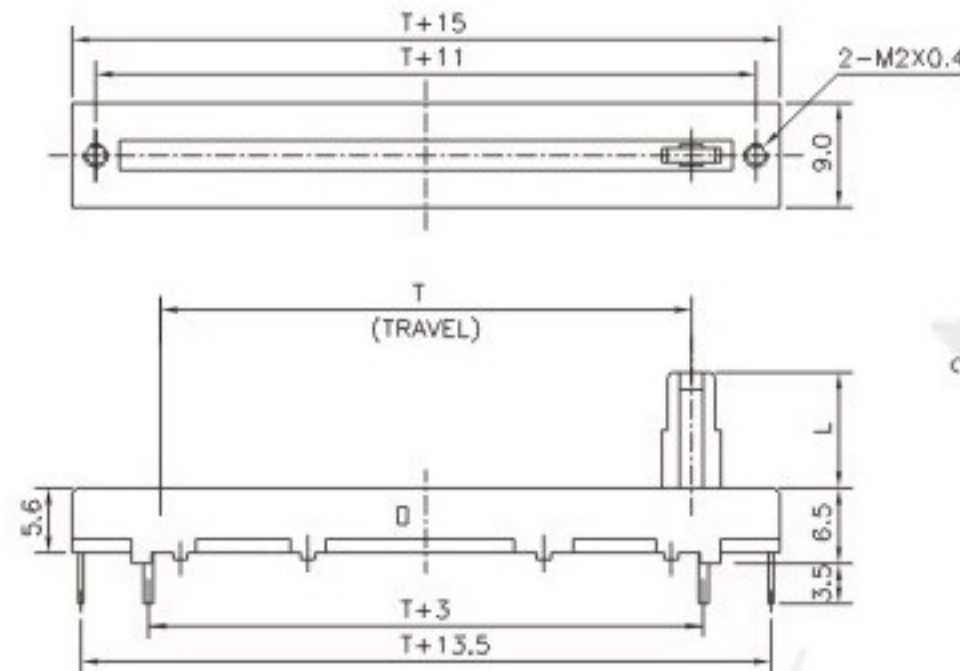
Maximum attenuation level-95db
Model:RA6021F-20-15C1-A10K-0014



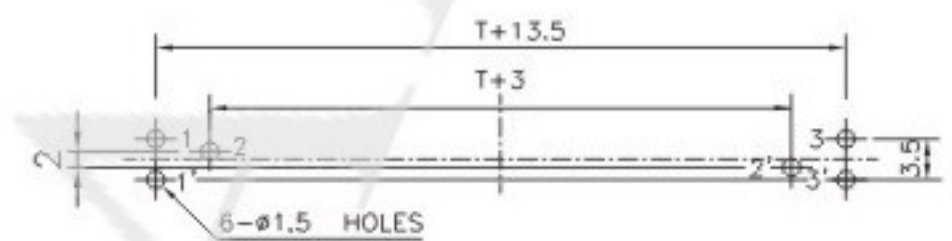
P.C.B Mounting Hole Detail
Travel distance ◇◇mm

15	30	45	60
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RA◇◇22F-20(Dual)



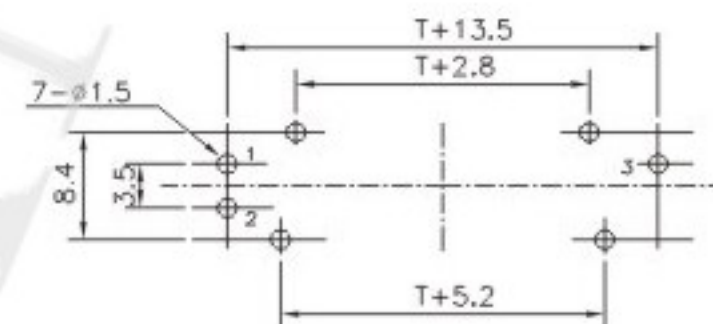
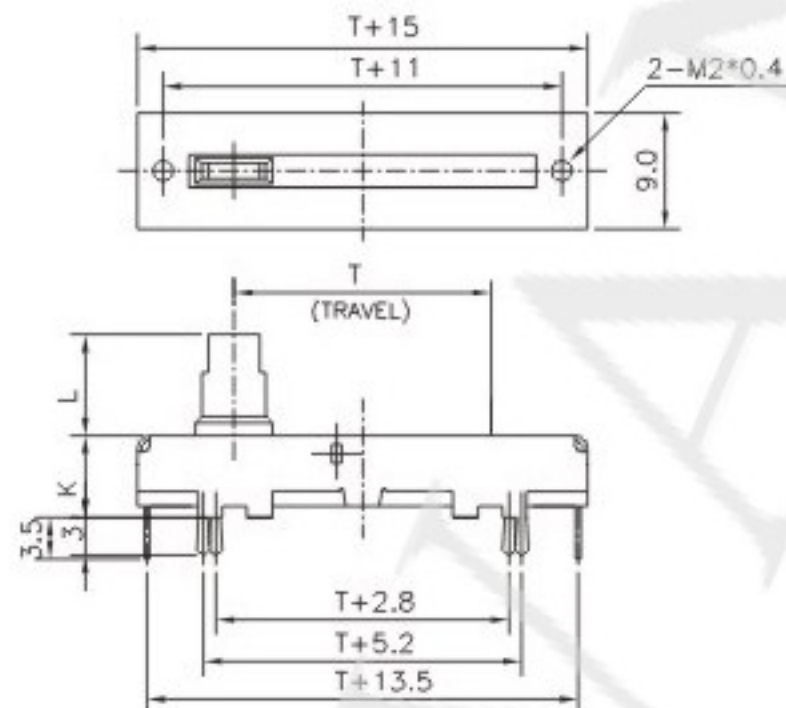
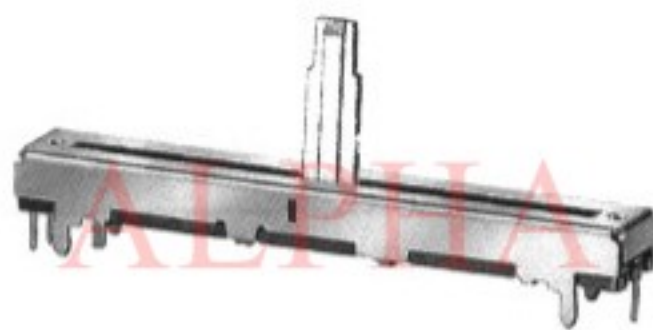
Maximum attenuation level-95db
Model:RA6022F-20-15C1-A10K-0014



P.C.B Mounting Hole Detail
Travel distance ◇◇mm

30	45	60
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**RA◇◇21F- 202
203(Mono)**



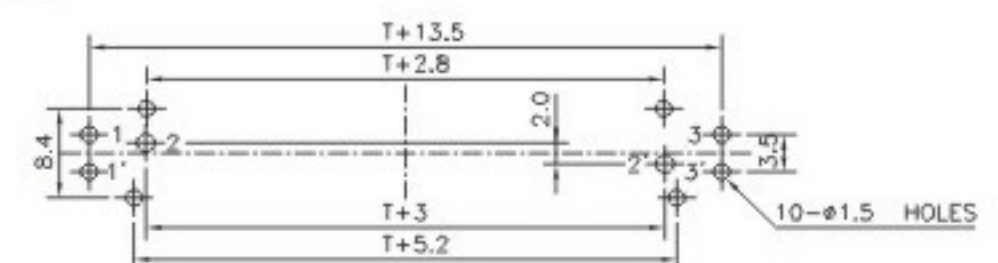
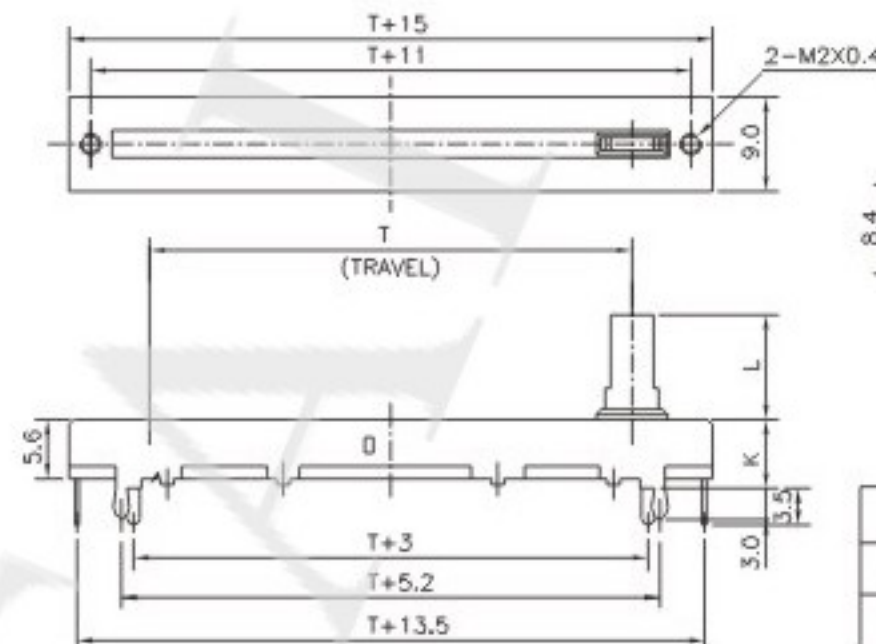
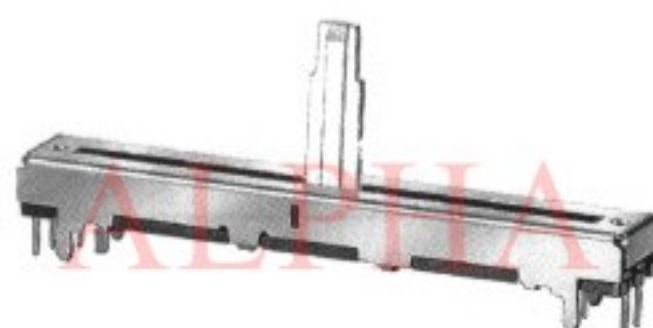
P.C.B Mounting Hole Detail

Travel distance ◇◇mm

MODEL	K
RA◇◇21-202	6.5
RA◇◇21-203	8

15	20	30	45
60			

**RA◇◇22F- 202
203(Dual)**



P.C.B Mounting Hole Detail

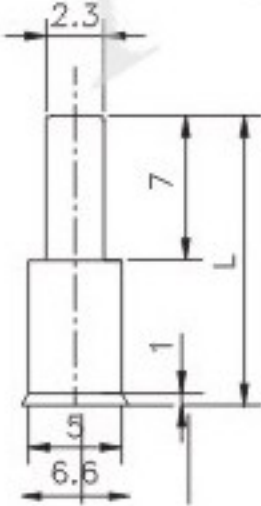
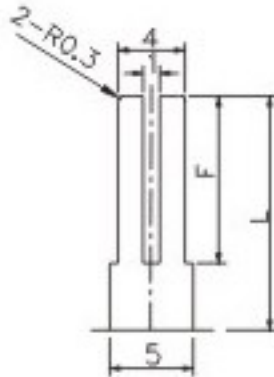
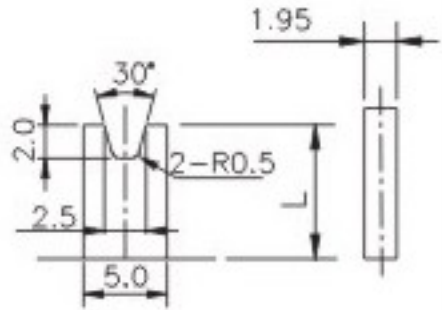
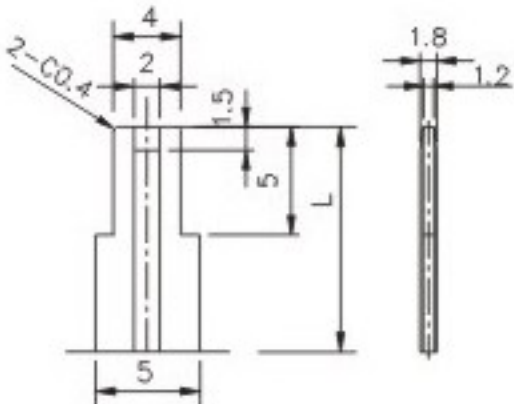
Travel distance ◇◇mm

MODEL	K
RA◇◇22-202	6.5
RA◇◇22-203	8

15	20	30	45
60			

LEVER STYLE

MODEL	RA2031F, RA3041F, RA2032F, RA3042F			
LEVER TYPE	CA	DA		BA
DIMENSIONS	INSULATED LEVER	INSULATED LEVER		INSULATED LEVER
LENGTH(L)	15	10	15	20

MODEL	RA◇◇21F, RA◇◇22F SERIES										
LEVER TYPE	C1			C3		H1		VA		DA	
DIMENSIONS	METAL LEVER t1.2			METAL LEVER t1.2		METAL LEVER t1.2		INSULATED LEVER		INSULATED LEVER	
											
	F 3 7 10 L 8 10 15			10		F 7 L 10.4		10.5		10 15 20	

SPECIFICATION

ELECTRICAL							
TOTAL RESISTANCE		1KΩ to 1MΩ					
RESISTANCE TOLERANCE		± 20%					
RESISTANCE TAPER		A, B, C and other tapers are also available upon request					
RATED WATTAGE(W)	Taper \ Travel		15mm	20mm	30mm	45mm	60mm
	B	Mono	0.05	0.1	0.2	0.25	0.2
		Dual	0.025	0.05	0.1	0.125	0.2
	Except B	Mono	0.025	0.05	0.1	0.125	0.1
		Dual	0.012	0.025	0.05	0.06	0.1
RATED VOLTAGE(V)	B		100	200	200	200	200
	Except B		50	150	150	150	150
INSULATION RESISTANCE		100MΩ Min. at 250V DC					
DIELECTRIC STRENGTH		1 minute at 300V AC					
MECHANICAL							
OPERATING FORCE		30~250gf.cm					
LEVER STOP STRENGTH		5kg/60Sec. (5mm Point from Mounting Surface)					
LEVER WOBBLE		2(2xL)/20mm Max. (L: Lever length, both sides)					
CLICK SLIP-OUT FORCE (ONLY CENTER CLICK)		Operating force +20~200gf.cm					
DURABILITY							
SLIDING LIFE		15,000 cycles					
NUMBER OF CLICK (DETENT)							
		Model					
CENTER CLICK		RA◇◇ 43 series, RA◇◇ 44 series RA2031, RA3041, RA2032, RA3042 RA◇◇ 21 series, RA◇◇ 22 series					
11-CLICK		RA3041, RA3042, RA3021, RA3022, RA3043					

Specification

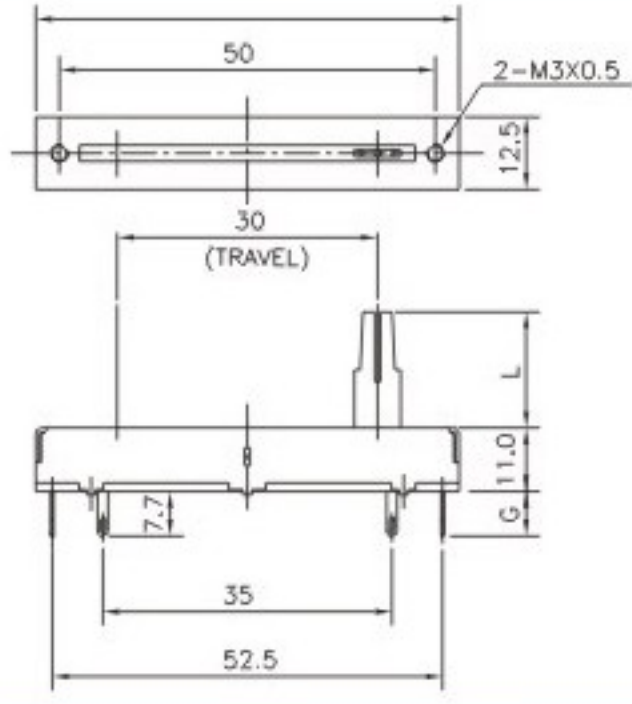
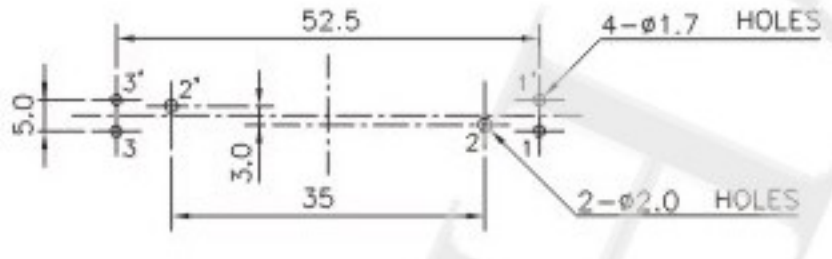
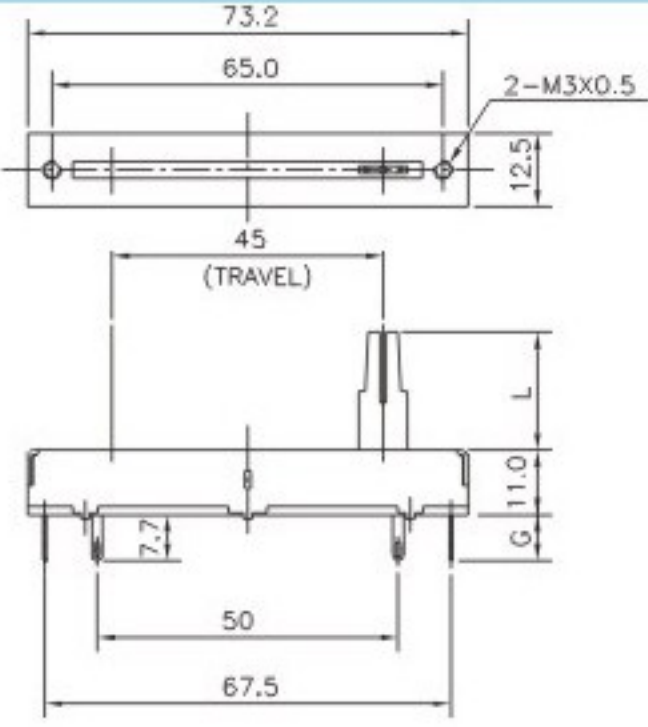
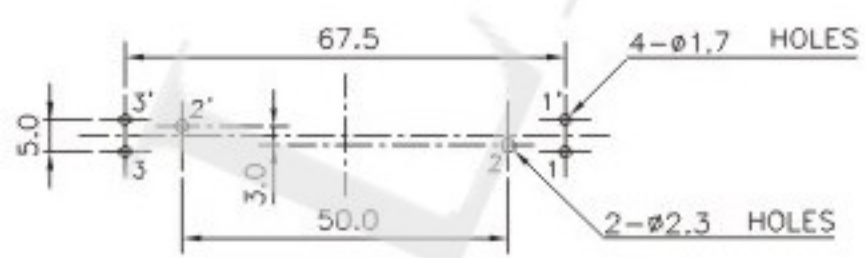
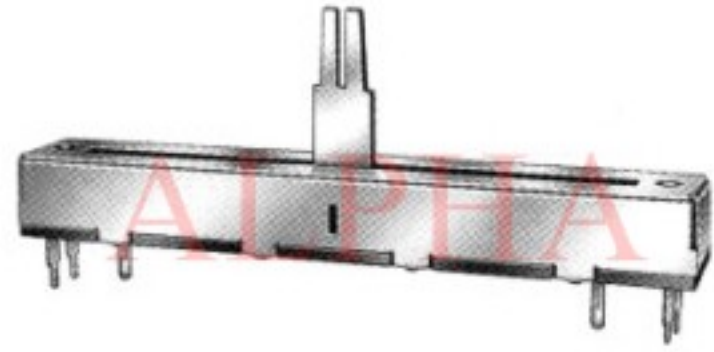
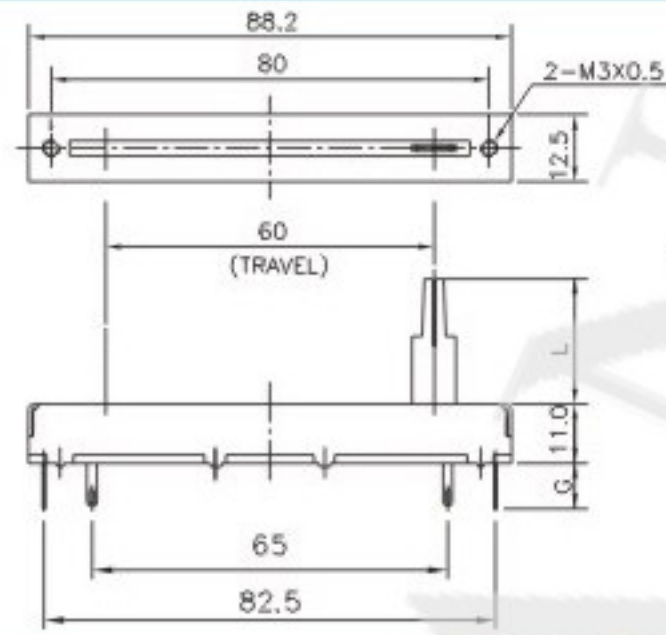
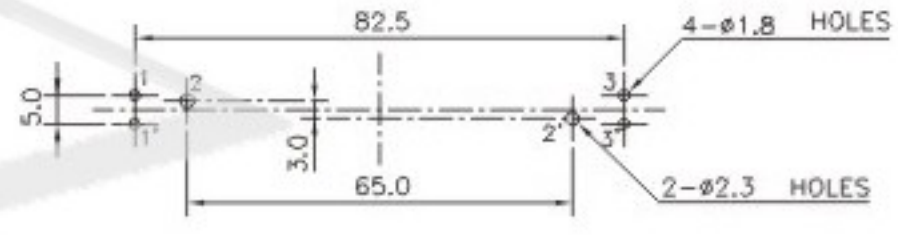
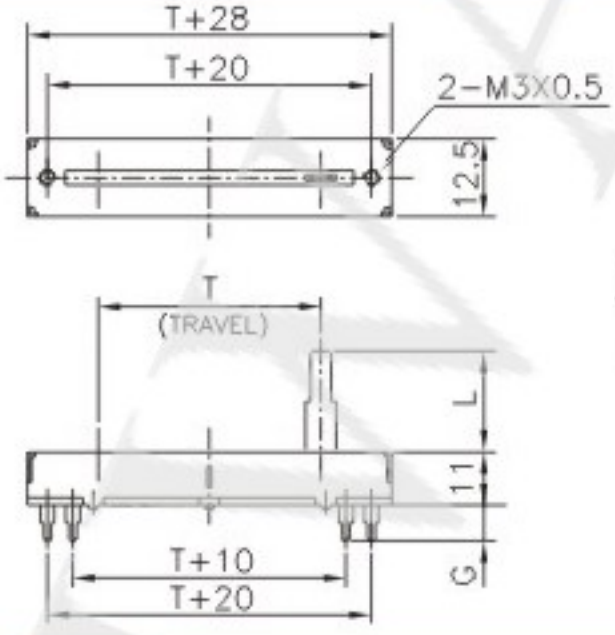
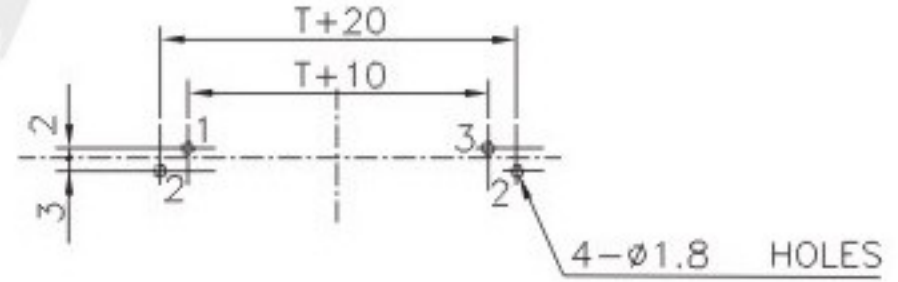
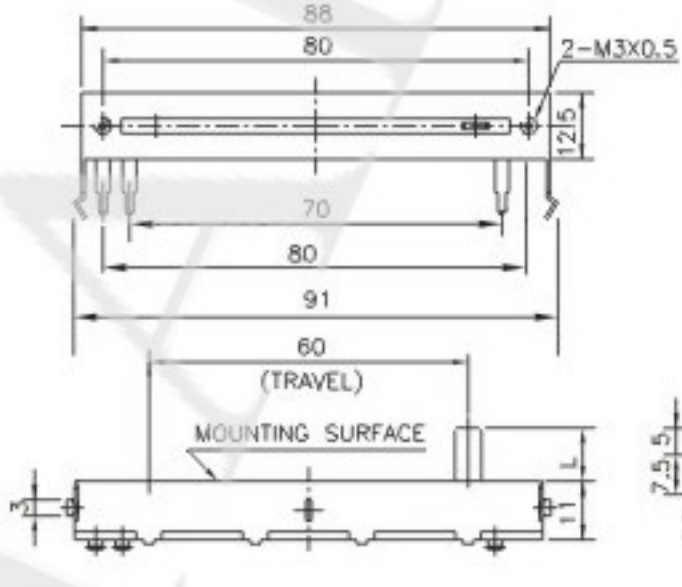
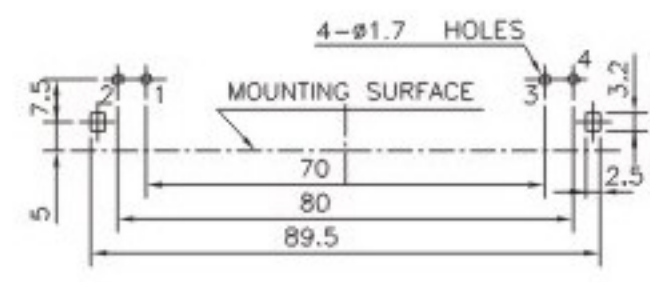
Electrical						
Total Resistance	5KΩ to 1MΩ					
Resistance Tolerance	±20%					
Resistance Taper	A, B and other tapers are also available upon request					
Rated Wattage (W)	Taper		Travel	10mm	15mm	20mm
	B	Mono		0.03	0.05	0.1
		Dual		0.015	0.025	–
	Except B	Mono		0.015	0.025	0.05
		Dual		0.01	0.01	–
Rated Voltage (V)	B			100	100	200
	Except B			50	50	150
Insulation Resistance	50MΩ Min. at 100V DC					50MΩ Min. at 250V DC
Dielectric	1 minute at 100V AC					1 minute at 250V AC

MECHANICAL	Travel distance(mm)	10mm	15mm	20mm
Operating Force	20-200gf.cm			
Lever Stop Strength	2.5kg/60Sec. (5mm Point from Mounting Surface)			
Lever Wobble	2xL/25mm Max. (L: Lever length, single side)			
Click Slip-Out Force (Only Center Click)	Operating force +10~200gf.cm			

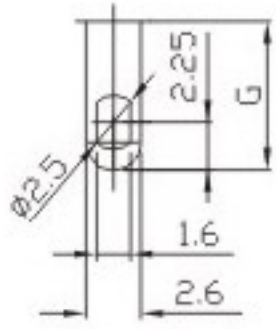
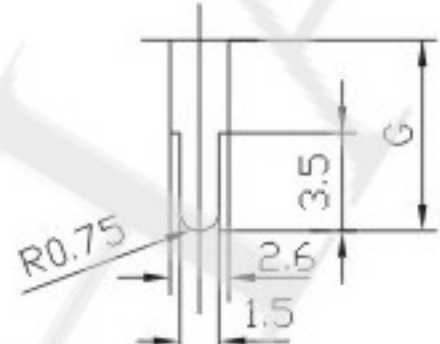
Durability	Travel distance (mm)	10mm	15mm	20mm
Sliding Life	5,000 CYCLES			10,000 CYCLES

Number of Click (Detent)	
Click (Detent)	Model
Center Click	RA2040F

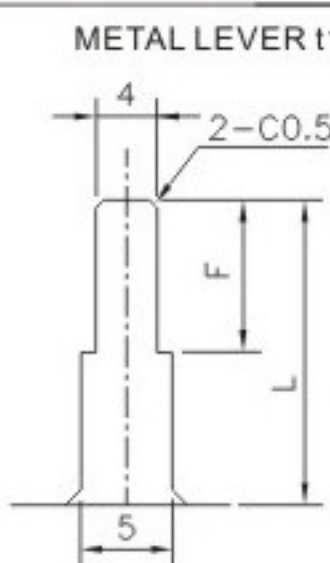
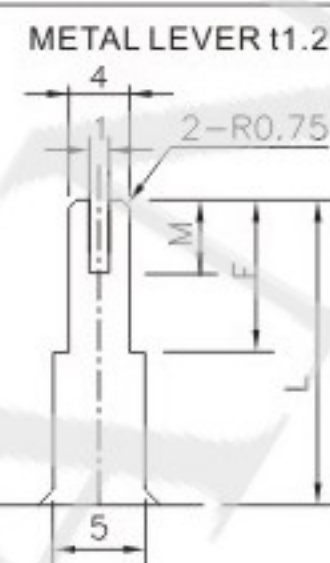
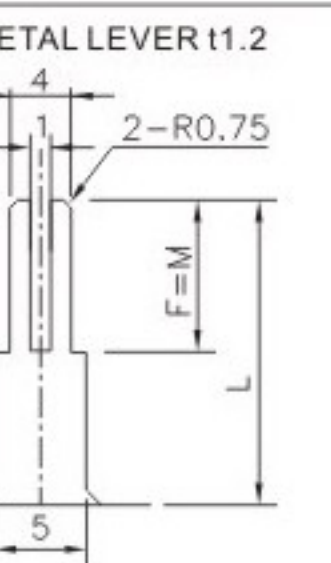
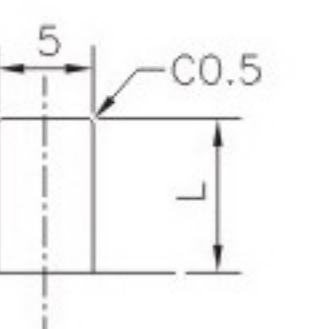
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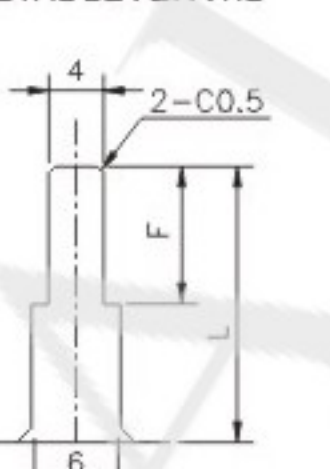
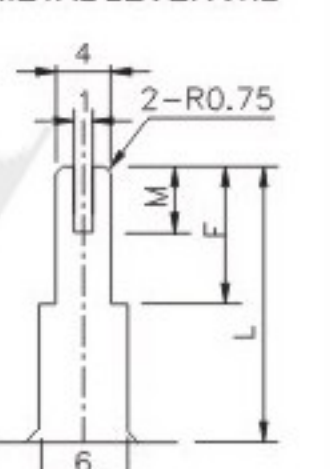
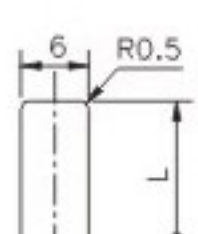
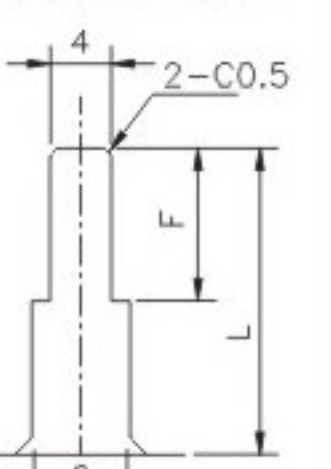
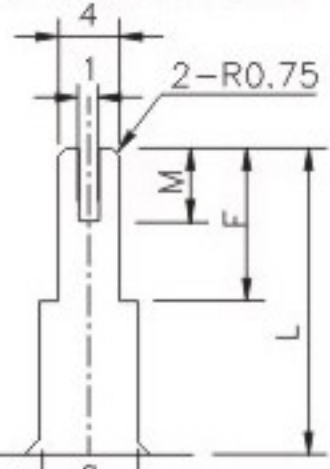
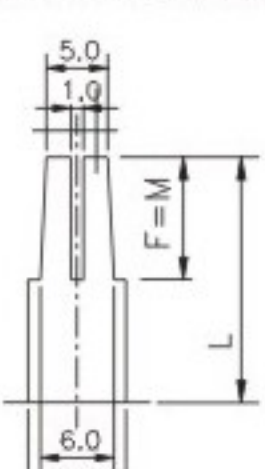
Model	Outline Drawing	Mounting Hole Detail
RA3030F-20(Dual) 		 For dimension of G, please refer to Page87
RA4530F-20(Dual) 		 P.C.B Mounting Hole Detail For dimension of G, please refer to Page87
RA6030F-20(Dual) 		 P.C.B Mounting Hole Detail For dimension of G, please refer to Page87
RA4520F-20(Mono) RA6020F-20(Mono) 		 P.C.B Mounting Hole Detail For dimension of G, please refer to Page87
RA6040F-30(Mono) 		 P.C.B Mounting Hole Detail For dimension of G, please refer to Page87

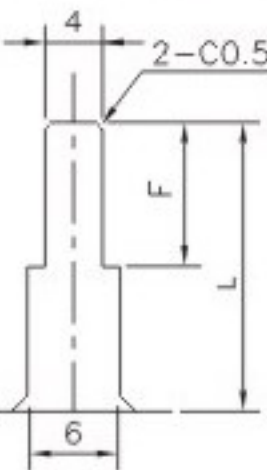
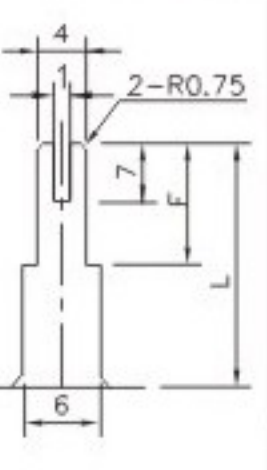
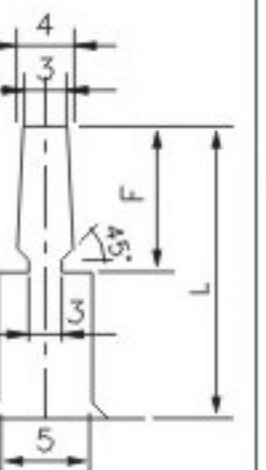
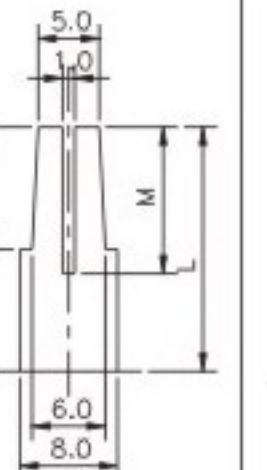
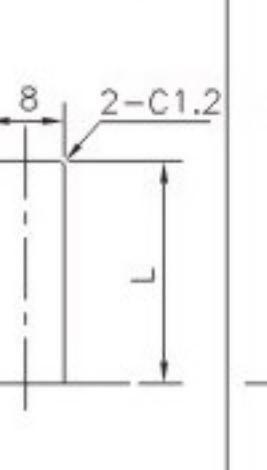
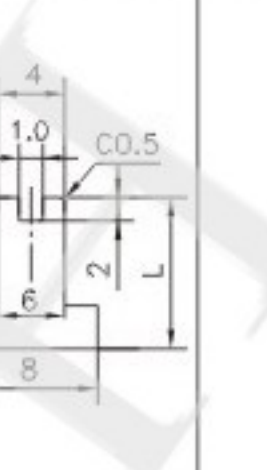
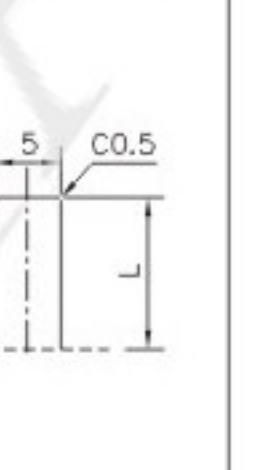
Terminal Style

TYPE	SOLDER LUG TYPE	P.C.B. TYPE	
DIMENSIONS			
RA300B RA300A	LENGTH(G)=7	20(P) LENGTH(G)=8	21(P1) LENGTH(G)=6.5
RA4530 RA6030 RA4520 RA6020	LENGTH(G)=7.5	LENGTH(G)=8.5	LENGTH(G)=7

LEVER STYLE

MODEL	RA2061F, RA3062F														
LEVER TYPE	C1					F1					F3			B2	
DIMENSIONS															
	F	1.5	10	10	10	M	6	7	7	7	7	F	5	8	5
L	6.5	15	20	25	F	7	10	10	10	10	L	10	20		

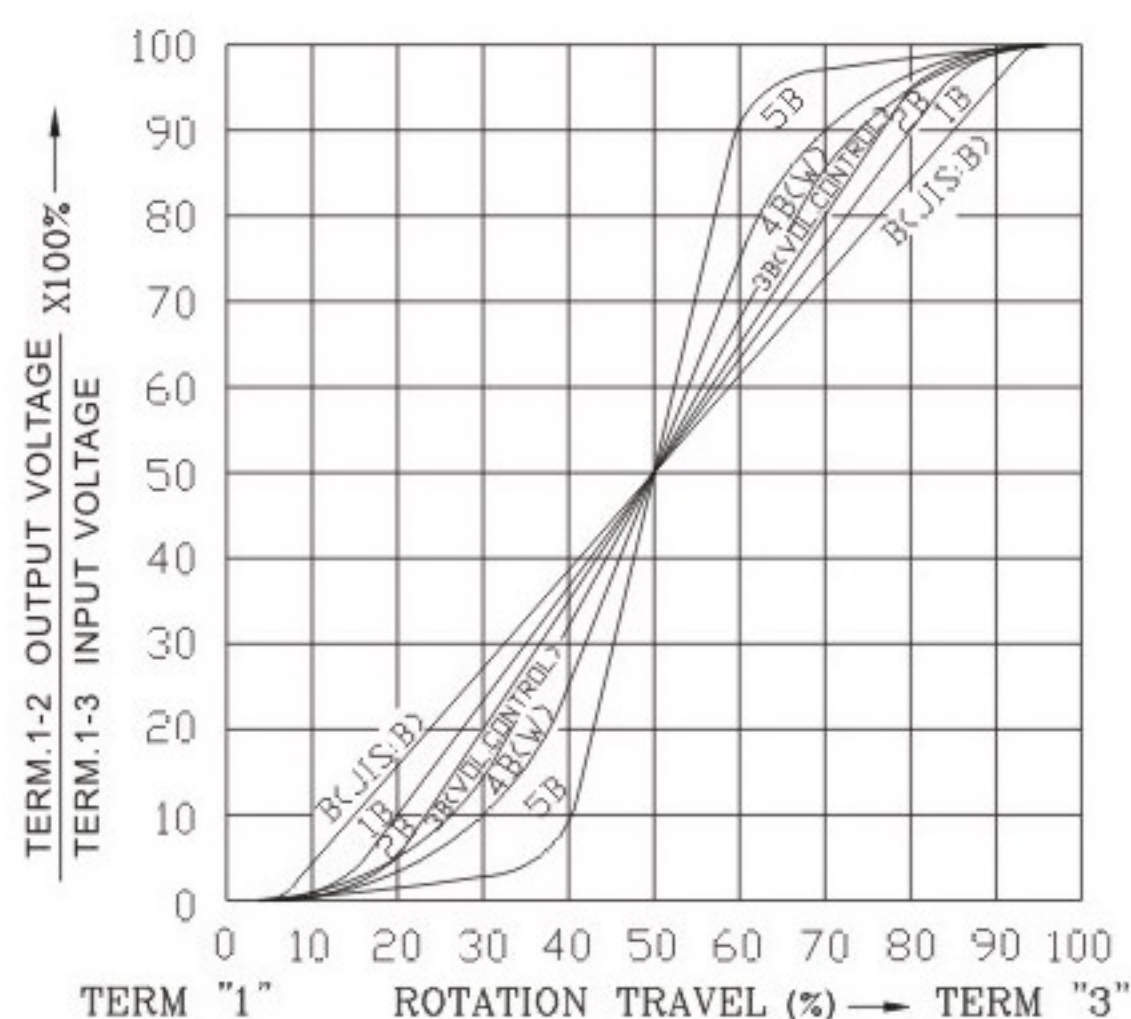
MODEL	RA300BF, RA300AF					RA4530F, RA6030F, RA3030F							
LEVER TYPE	C2		F2			B2	C2		F2		A1		
DIMENSIONS	METAL LEVER t1.2		METAL LEVER t1.2			METAL LEVER t1.2	METAL LEVER t1.2		METAL LEVER t1.2		METAL LEVER t1.2		
													
LENGTH(L)	F	10	M	7	7	3.6	F	10	M	7	F	11	10
	L	15	F	10	10		L	20	F	10	L	16	20
			L	15	20				L	15			

MODEL	RA450CF, RA4520F, RA6020F, RA6040F							
LEVER TYPE	C2	F2	D1	A1	B1	E1	F4	B2
DIMENSIONS	METAL LEVER t1.2 	METAL LEVER t1.2 	METAL LEVER t1.2 	METAL LEVER t1.2 	METAL LEVER t1.2 	METAL LEVER t1.2 	METAL LEVER t1.2 	METAL LEVER t1.2 
LENGTH(L)	F 10 10 10 10 10	10	10 10 10	M 11 12	6 10 25	15 20	10	10
	L 12 15 20 25 27	25	15 20 25	F 11 10				
				L 16 20				

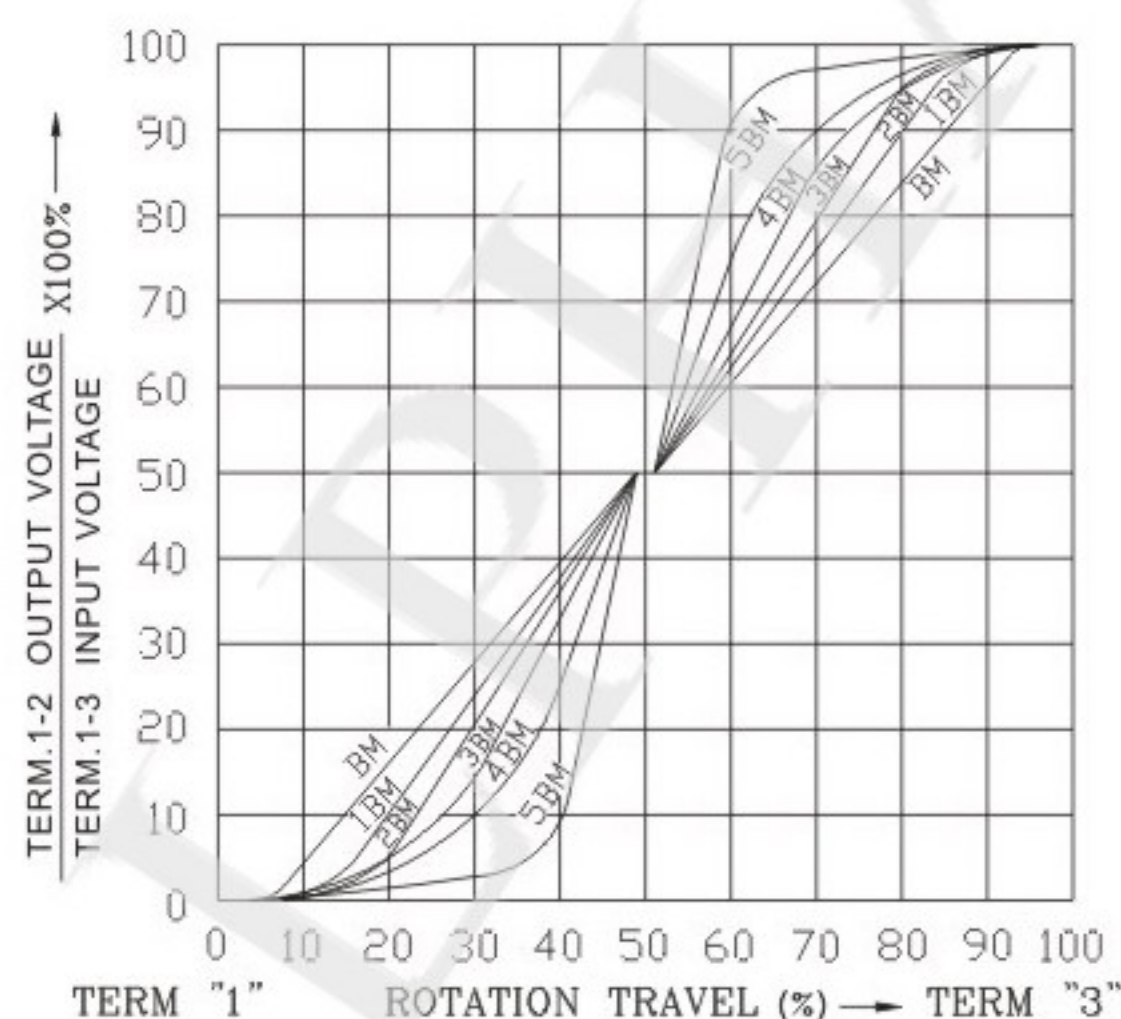
SPECIFICATION

ELECTRICAL								
TOTAL RESISTANCE		1KΩ to 1MΩ						
RESISANCE TOLERANCE		±20%						
RESISANCE TAPER		A, B, C and other tapers are also available upon request						
RATED WATTAGE(W)	Type		Travel	20mm	30mm	45mm	60mm	100mm
	B	Mono	0.1	0.2	0.5	0.5	0.5	
		Dual	—	—	0.125	0.25	0.25	
	Except B	Mono	0.05	0.1	0.125	0.25	0.25	
		Dual	—	—	0.06	0.125	0.125	
RATED VOLTAGE(V)		B		200	200	350	500	500
		Except B		150	150	250	350	350
INSULATION RESISTANCE		50MΩ Min. at 500V DC				100MΩ Min. at 500V DC		
DIELECTRIC STRENGTH		1 minute at 300V AC				1 minute at 500V AC		
MECHANICAL		TRAVEL DISTANCE(mm)	20mm	30mm	45mm	50mm	60mm	
OPERATING FORCE		20~260gf.cm			50~350gf.cm			
LEVER STOP STRENGTH		5Kg/60 sec.(5 mm)			5Kg/60 sec.(10 mm)			
LEVER WOBBLE		2(2XL)/20mm Max.(L: LEVER LENGTH BOTH SIDES)						
CLICK SLIP-OUT FORCE (ONLY CENTER CLICK)		Operating Force +30~250gf.cm						
DURABILITY								
SLIDING LIFE		15,000 cycles						
NUMBER OF CLICK (DETENT)								
CLICK (DETENT)		MODEL						
CENTER CLICK		RA2061F, RA3062F RA300BF, RA300AF, RA450CF, RA4530F, RA6030F RA4520F, RA6020F						
3-Click		RA450CF, RA4520F						
7-Click		RA2061F						
11-Click		RA300BF						

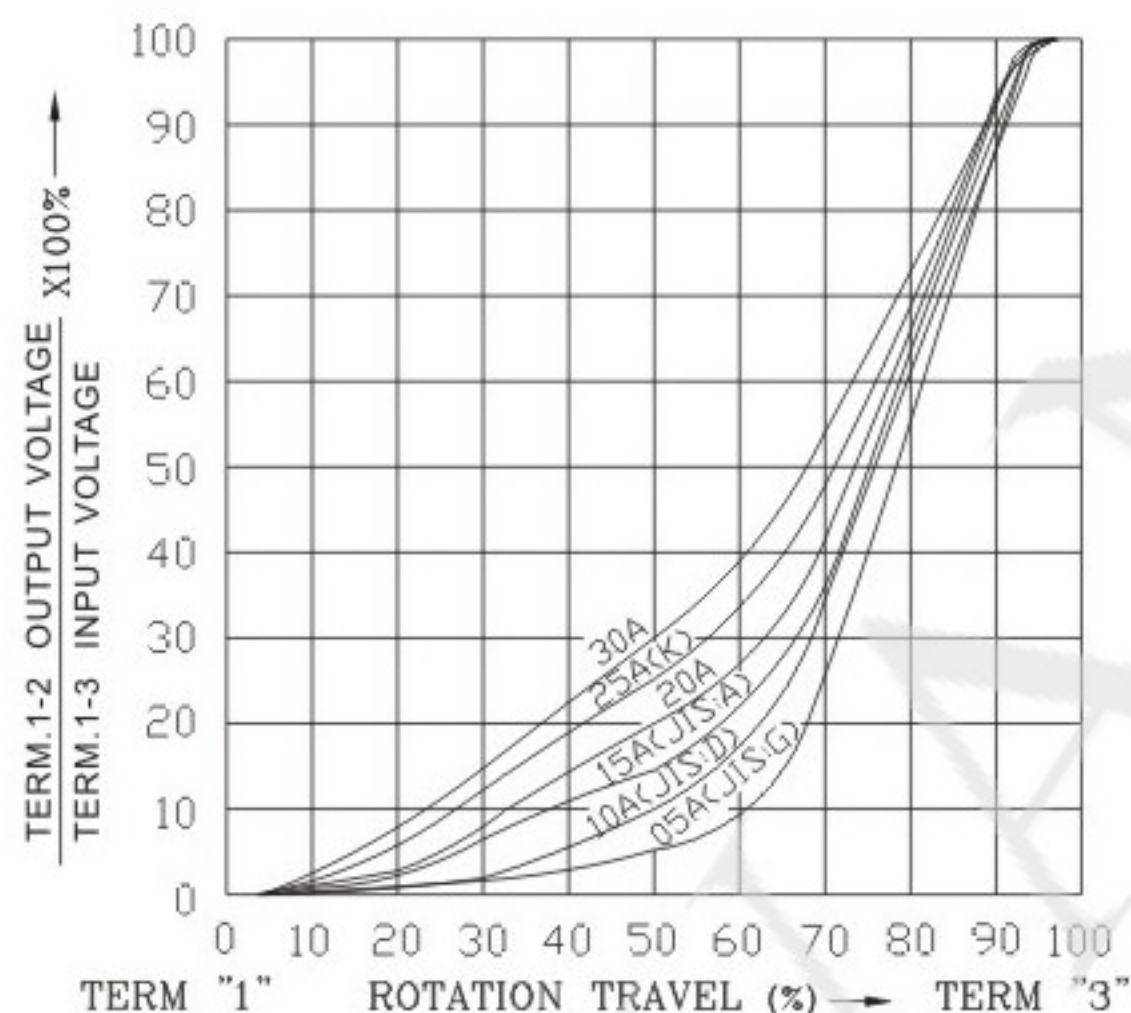
TAPERS B SERIES



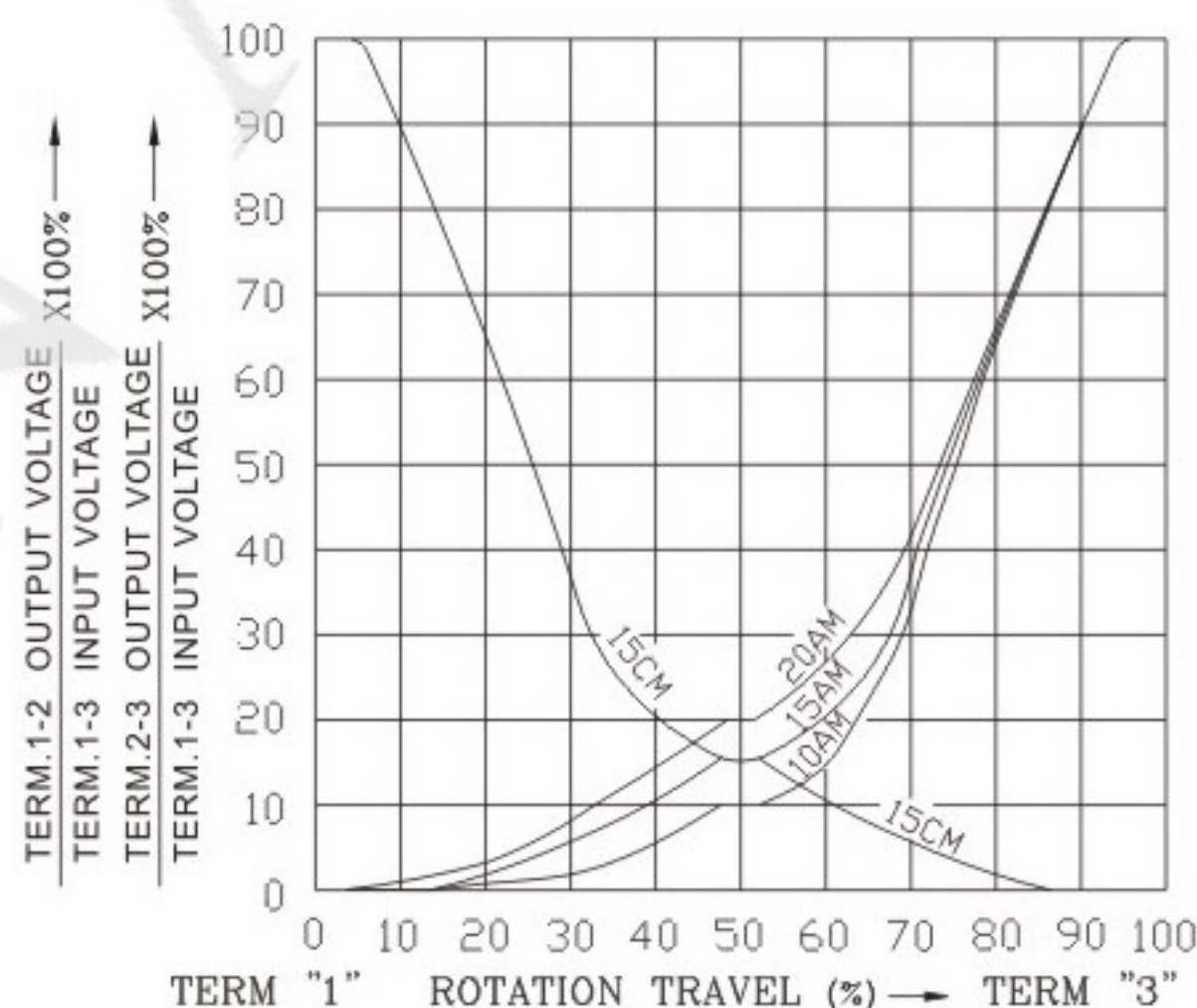
TAPERS B WITH 50% TAP



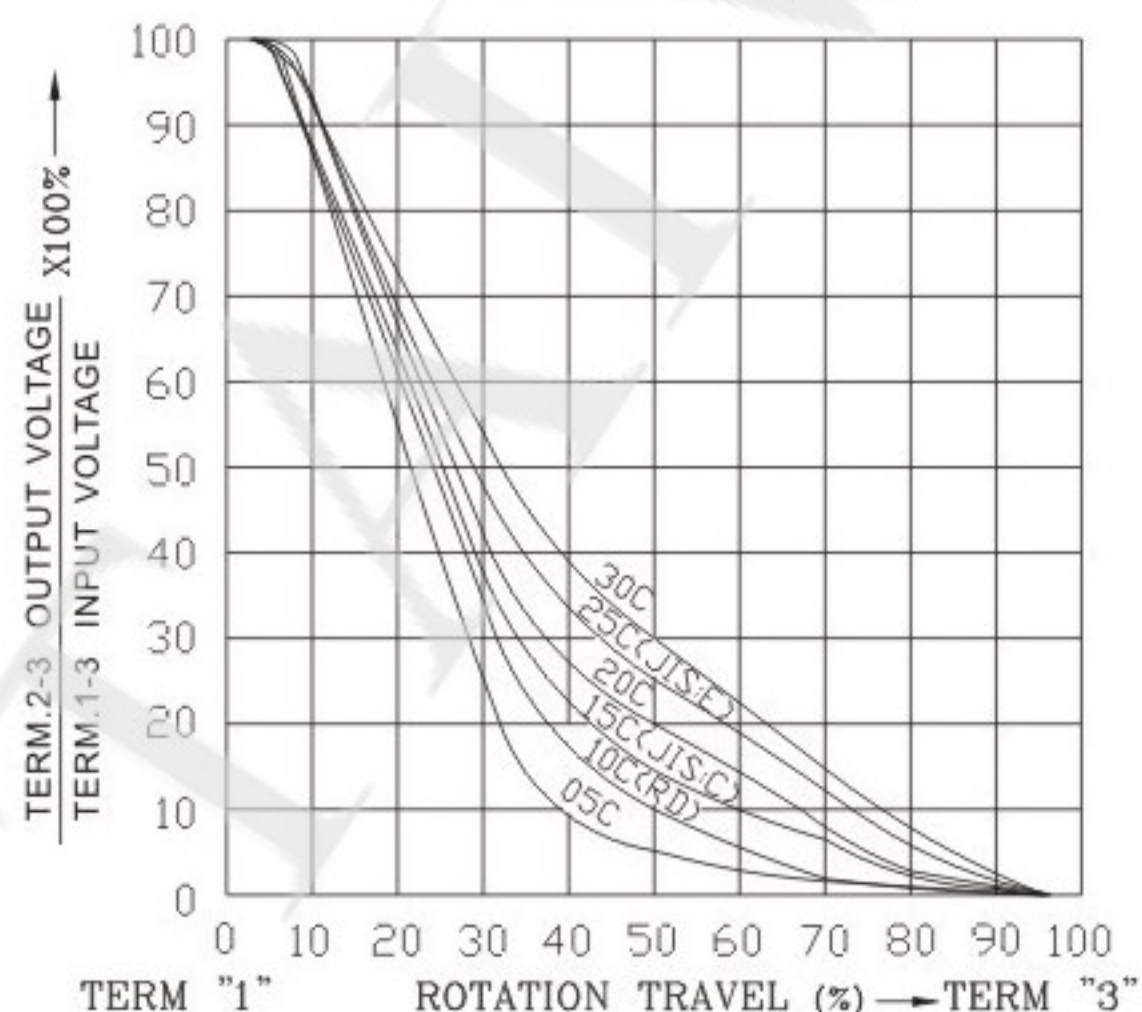
TAPERS A SERIES



TAPERS A & C WITH 50% TAP



TAPERS C SERIES



TAPERS M & N

