

SNAP-IN INSULATED SHAFT SERIES METAL SHAFT SERIES/SPECIAL USE SERIES CODE EXPLANATION

插入型絕緣/金屬軸式編碼規則

RV 09 A X F - 40 E1 - 20 F X - B 5K - X X XXX
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

1. Product Line

RV Rotary Potentiometer

2. Model

3. Structure Difference

4. Derivatives

5. RoHS Version

F indicates RoHS Compliance

6. Type of Terminal

Code	Type of Terminal
10	Solder lug
20	PC board (horizontal)
30	PC board (vertical);front
40	PC board (vertical);back

7. Type of Bushing

8. Shaft Length

9. Type of Shaft

10. Axis Angle of F-type Shaft

11. Pattern of Resistance Curve

12. Resistance Value

13. Materials & Methods for Manufacturing Shaft & Bushing

14. Number of Click

Code	Specification
0	None
C	Center Click
D	11 Positions click
E	21 Positions click
F	41 Positions click

15. 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：

1. 型號。
2. 公稱阻值及線性要求。
3. 軸型及長度。
4. 端子型式。
5. 段點的有無。
6. 中間抽頭的有無。
7. 音量用或其他。
8. 手焊錫或錫爐焊錫。

ORDERING INSTRUCTIONS

WHEN PLACING YOUR ORDER, PLEASE SPECIFY THE FOLLOWING ITEMS ACCORDING TO YOUR APPLICATION NEEDS. FOR MORE INFORMATION ABOUT OUR PRODUCTS, PLEASE REFER TO THE SPECIFICATION GIVEN ON THE FOLLOWING PAGES.


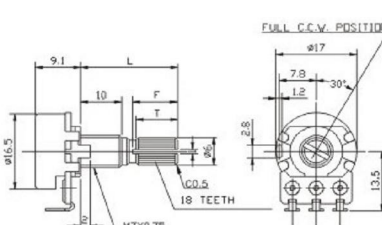
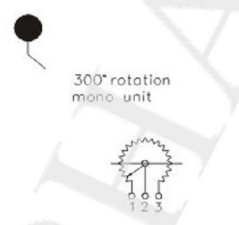

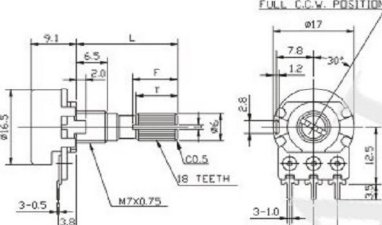
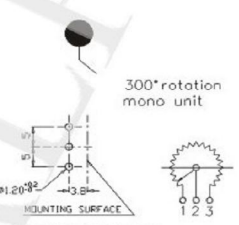
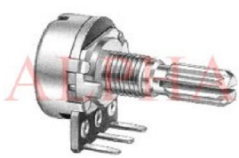
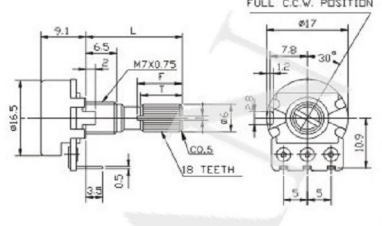
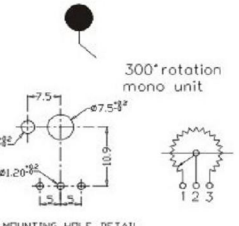
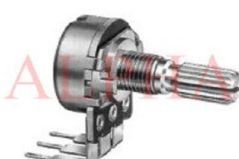
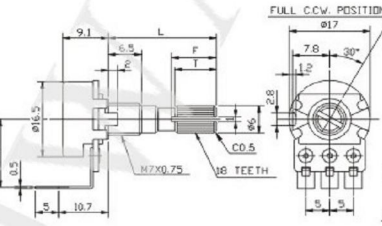
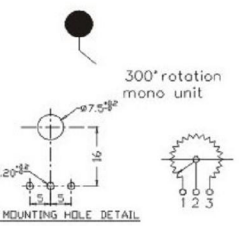

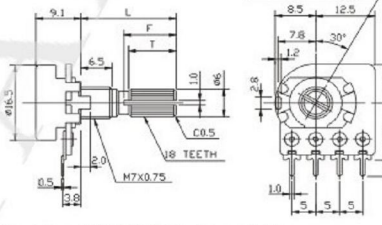
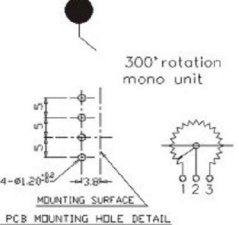
ITEMS：

1. MODEL.
2. NORMAL RESISTANCE VALUE AND TAPER.
3. SHAFT STYLE AND LENGTH.
4. TERMINAL STYLE.
5. WITH CLICK OR WITHOUT CLICK, CLICK POSITION
6. WITH TAP OR WITHOUT TAP, TAP POSITION.
7. FOR VOLUME CONTROL OR OTHER USE.
8. MANUAL SOLDERING OR DIP SOLDERING.


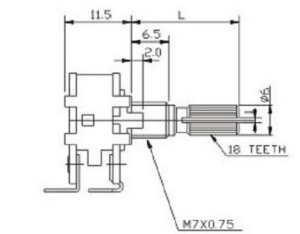
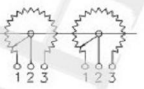

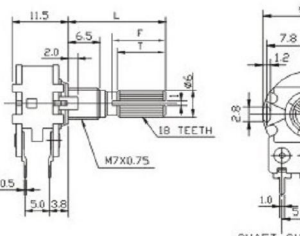

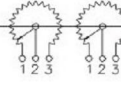
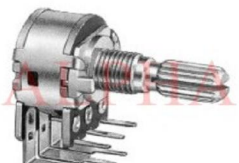
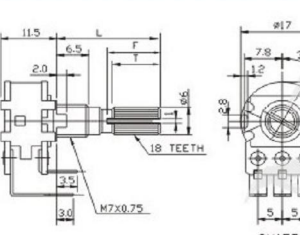
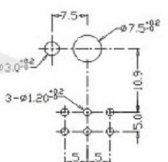
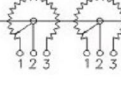

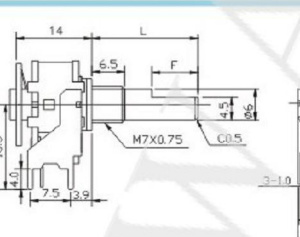
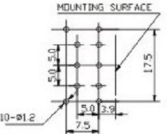

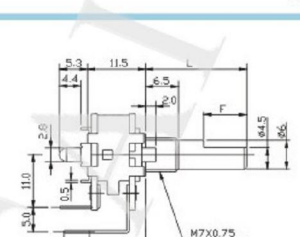
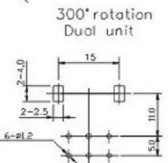


ALPHA

16mm METAL SHAFT SERIES

Model	Outline Drawing	Features / Individual Specification
RV16AF-10B6 		 <p>300° rotation mono unit</p>
RV16AF-20 		 <p>300° rotation mono unit</p> <p>PCB MOUNTING HOLE DETAIL</p>
RV16AF-30 		 <p>300° rotation mono unit</p> <p>PCB MOUNTING HOLE DETAIL</p>
RV16AF-41 		 <p>300° rotation mono unit</p> <p>PCB MOUNTING HOLE DETAIL</p>
RV16ARF-20 	 <p>Dual Gang (RV16AR1F) is also available</p>	 <p>300° rotation mono unit</p> <p>PCB MOUNTING HOLE DETAIL</p>

For Shaft & Bushing Dimension please refer to page(74)
 For PCB Mounting HoleDetail please refer to page(50)

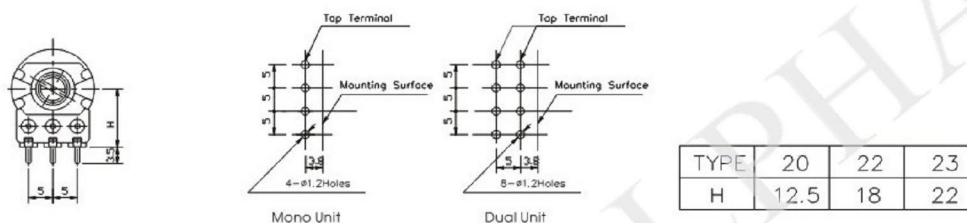
Model	Outline Drawing	Individual Specification
RV16A01F-10 	 <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>	<p>300° rotation Dual unit</p> 
RV16A01F-20 	 <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>	<p>300° rotation Dual unit</p> <p>MOUNTING SURFACE</p>  <p>PCB MOUNTING HOLE DETAIL</p> 
RV16A01F-30 	 <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>	<p>300° rotation Dual unit</p> <p>PCB MOUNTING HOLE DETAIL</p>  
RV16AE1F-20B2 	 <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>	<p>300° rotation Dual unit</p> <p>MOUNTING SURFACE</p> <p>PCB MOUNTING HOLE DETAIL</p> 
RV16AD1F-41 	 <p>SHAFT SHOWN IN FULL C.C.W. POSITION</p>	<p>300° rotation Dual unit</p> <p>PCB MOUNTING HOLE DETAIL</p> 

For Shaft & Bushing Dimension please refer to page(74)
For PCB Mounting Hole Detail please refer to page(50)

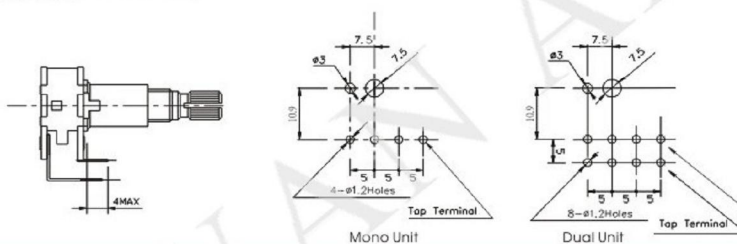
16mm METAL SHAFT SERIES

P.C.B. MOUNTING HOLE DETAIL AND TERMINAL DIMENSIONS

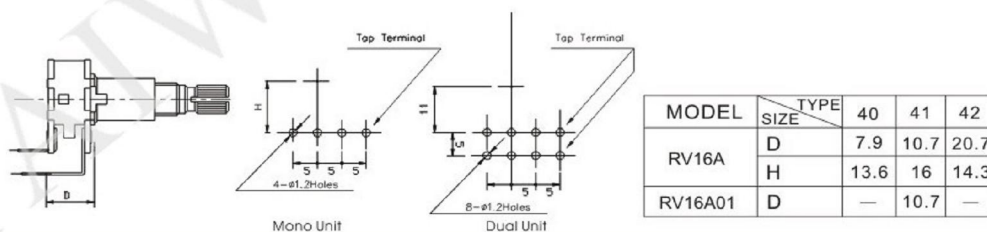
20 Type Terminal (PH Terminal)



30 Type Terminal (PV Terminal)



40 Type Terminal (UPV Terminal)



RV16AF

MECHANICAL

TOTAL ROTATION ANGLE 300°±5°
 ROTATION TORQUE 20-200 gf.cm
 SHAFT STOP STRENGTH 6kgf.cm/Min.
 CLICK POSITION Center, 11, 21 or 41 positions
 CLICK TORQUE 100-400 gf.cm

ELECTRICAL

RATED WATTAGE 0.125W
 RATED VOLTAGE 150V AC
 INSULATION RESISTANCE more than 100MΩ at 500V DC
 DIELECTRIC STRENGTH 500V AC, 1 minute
 TAP POSITION 50%(150°)
 TRACKING ERROR volume control: -40~0dB±3dB
 tone, balance control: ±2dB at 50% point

For Shaft & Bushing Dimension please refer to page(74)

Features / Individual Specification

[illegible]

SPECIFICATION

MECHANICAL		RV16BF	RV16A04F & RV16A03F
TOTAL ROTATION ANGLE		300°±5°	300°±5°
ROTATION TORQUE		20-200 gf.cm	20-200 gf.cm
SHAFT STOP STRENGTH		6kgf.cm/Min.	6kgf.cm/Min.
SWITCH WORKING ANGLE/STROKE		4mm	50°±10°
SWITCH WORKING TORQUE/FORCE		800gf.cm Max.	50-450gf.cm
SWITCH CIRCUIT		D.P.D.T. S.P.D.T.	S.P.S.T.
ELECTRICAL			
		Linear taper (B) other tapers	linear taper (B) other tapers
RATED WATTAGE		0.2W 0.1W	0.2W 0.1W
RATED VOLTAGE		200V 150V	200V 150V
INSULATION RESISTANCE		more than 100MΩ at 500V DC	more than 100MΩ at 500V DC
DIELECTRIC STRENGTH		500V AC, 1 minute	500V AC, 1 minute
SWITCH CONTACT RESISTANCE		less than 20mΩ	less than 50mΩ
SWITCH RATING		30V DC, 0.3A	12V DC, 1A
ROTATION LIFE		15,000 cycles	15,000 cycles
SWITCH LIFE		10,000 cycles	10,000 cycles

For Shaft & Bushing Dimension please refer to page(74)

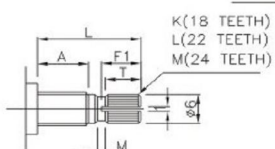
12mm,16mm, 17mm, 24mm METAL SHAFT SERIES

STANDARD SHAFT, BUSHING, NUT AND WASHER DIMENSION

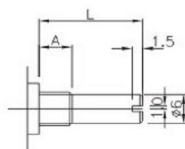
METAL SHAFT

※ Not specified
Slotting angle

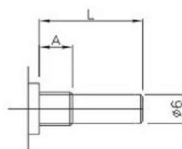
K-TYPE



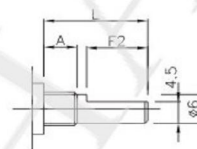
S-TYPE



R-TYPE



F-TYPE



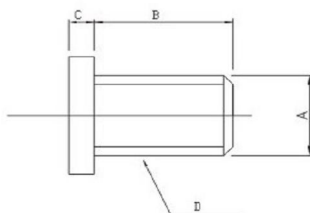
A: 5m/m

SHAFT-TYPE	L	10	15	20	25	30	35	40
K	F1	3.5	6.5	11	14	14	14	14
	T	3.2	6	10	12	12	12	12
	M	0.5	1	2	4	4	4	4
F	F2	4	7	12	14	14	14	14
R, S	L	10	15	20	25	30	35	40

A: 6.5m/m

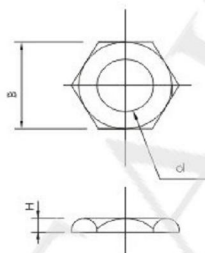
SHAFT-TYPE	L	10	15	20	25	30	35	40
K	F1	2.4	6.5	11	14	14	14	14
	T	2.2	6	10	12	12	12	12
	M	0.5	1	2	4	4	4	4
F	F2	2.5	7	12	14	14	14	14
R, S	L	10	15	20	25	30	35	40

BUSHING

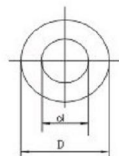


SERIES	RV24A	RV170	RV16A	RV060	RV120	RV122
A	ø8	ø7	ø7	ø9	ø7	7
B	6.5	5	6.5	7	7	7
C	2	1	1.4	0.7	3.3	3.3
D	M8x0.75	M7x0.75	M7x0.75	M9x0.75	M7x0.75	M7x0.75

NUT, WASHER



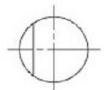
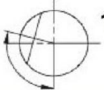

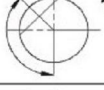
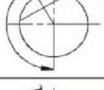
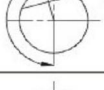
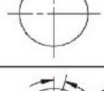
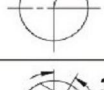
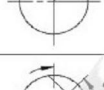
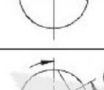

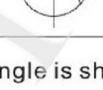
d	B	H
M6x0.75	8	2.0
M7x0.75	10	2.0
M8x0.75	11	2.0
M9x0.75	12	2.0
M10x0.75	14	2.0
3/8"32NEF	12.6	2.2







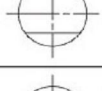
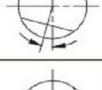
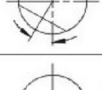
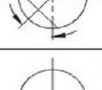
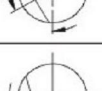
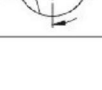


SERIES	d	D	H
M6	ø6.1	ø10	0.4
M7	ø7.1	ø12	0.4
M8	ø8.1	ø14	0.4
M9	ø9.1	ø14	0.4
M10	ø10.2	ø14.8	0.5
3/8"32NEF	ø9.7	ø16	0.4

AXIS ANGLE OF F-TYPE AND A-TYPE SHAFT

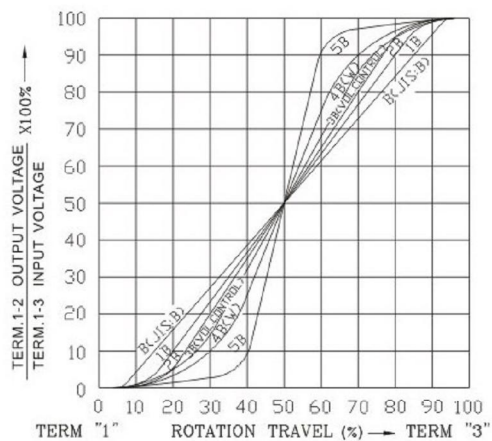
Standard Angle (for 300° rotation)

AXIS Angle	Symbol
	F00, (O)
 105°	F01, (A)
 120°	F02, (B)
 135°	F03, (C)
 150°	F04, (D)
 165°	F05, (E)
	F06, (F)
 15°	F07, (G)
 30°	F08, (H)
 45°	F09, (J)
 60°	F10, (K)
 75°	F11, (L)

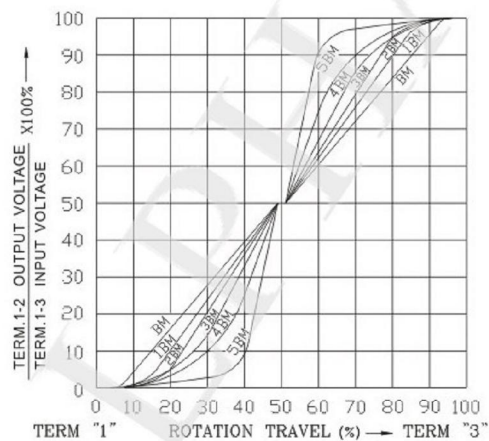
AXIS Angle	Symbol
	F12, (M)
 105°	F13, (N)
 120°	F14, (P)
 135°	F15, (Q)
 150°	F16, (R)
 165°	F17, (S)
	F18, (T)
 15°	F19, (V)
 30°	F20, (W)
 45°	F21, (X)
 60°	F22, (Y)
 75°	F23, (Z)

Axis angle is shown in full counter clockwise position

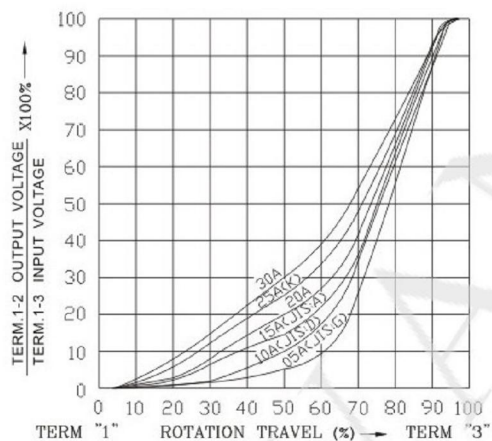
TAPERS B SERIES



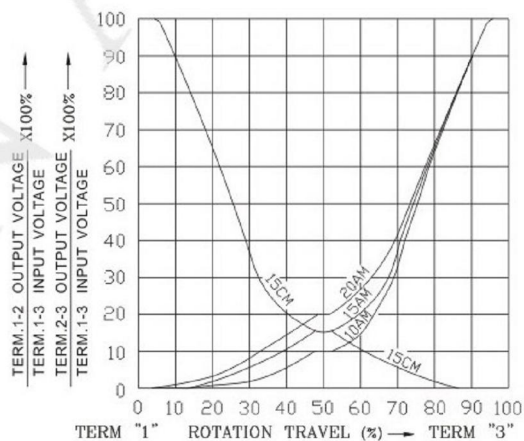
TAPERS B WITH 50% TAP



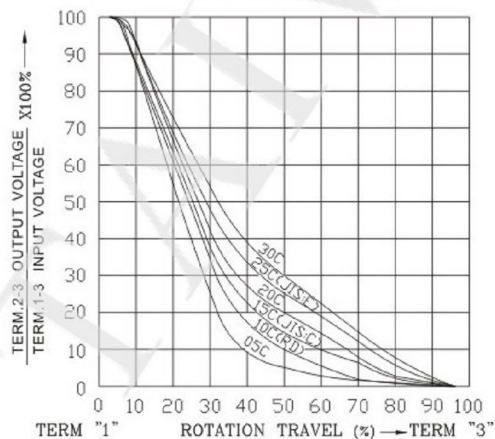
TAPERS A SERIES



TAPERS A & C WITH 50% TAP



TAPERS C SERIES



TAPERS M & N

