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Jameco Part Number 286206

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

RV 09 A 1 — 10 01 — 20 F P — B 5K — X X 9999
1 2 3 4 5 6 7 8 9 10 11 12 13 14

1. Product Line Ex :
RV—Rotary Potentiometer

2. Model

3. Structure Difference :

Type	Difference
T、R	With Tap

4. Derivatives

5. Type of Terminal

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

6. Type of Bushing

7. Shaft Length

8. Type of Shaft

9. Axis Angle of F-type Shaft

10. Pattern of Resistance Curve

11. Resistance Value

**12. Materials & Methods for
Manufacturing Shaft & Bushing**

13. Number of Click :

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

14. 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. 音量用或其它。
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 SPECIFICATIONS GIVEN ON THE FOLLOWING PAGES.

ITEMS :

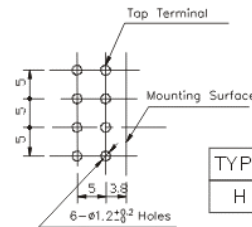
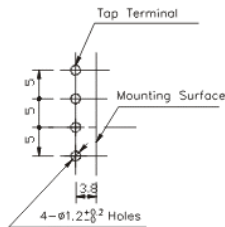
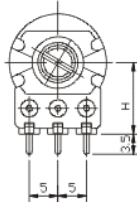
- 1.MODEL.
- 2.NORMAL RESISTANCE VALUE AND TAPER.
- 3.SHAFT STYLE AND LENGTH.
- 4.TERMINAL STYLE.
- 5.WITH CLICK OR WITHOUT CLICK, CLICK POSITION.
- 6.WITH TAP OR WITHOUT TAP, TAP POSITION.
- 7.FOR VOLUME CONTROL OR OTHER USE.
- 8.MANUAL SOLDERING OR DIP SOLDERING.

[illegible]

16mm SIZE METAL SHAFT SERIES

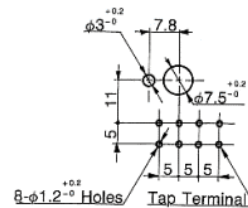
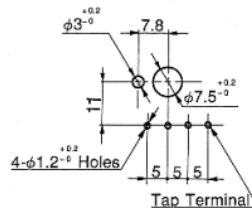
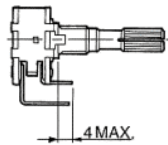
P.C.B. Mounting Hole Detail and Terminal Dimensions

20 TYPE TERMINAL
(PH TERMINAL)

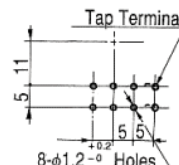
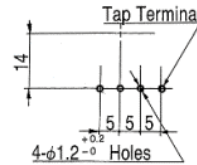
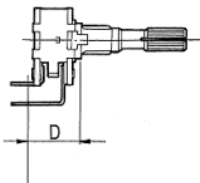


TYPE	20	22	23
H	12.5	18	22

30 TYPE TERMINAL
(PV TERMINAL)



40 TYPE TERMINAL
(UPV TERMINAL)



TYPE	40	41	42
D			
RV16A	8.5	10.7	21.1
RV16A01	-	10.7	-

Specifications

Mechanical

Total rotation angle
Rotation torque
Shaft stop strength
Switch working angle/stroke
Switch working torque/force
Switch circuit

RV16B

300°±5°
20-200gf.cm
6Kgf.cm/Max.
4mm
800gf.cm/Max.
D.P.D.T. S.P.D.T.

Electrical

Rated wattage
Rated voltage
Insulation resistance
Dielectric
Switch contact resistance
Switch rating
Rotation life
Switch life

Linear taper B Other tapers
0.2W 0.1W
200V 150V
More than 100MΩ at DC500V
AC500V, 1 minute
Less than 20mΩ
30VDC, 0.3A
15,000 cycles
10,000 cycles

RV16002

300°±5°
20-200gf.cm
6Kgf.cm/Max.
50°±10°
150-450gf.cm
S.P.S.T.

Linear taper B Other tapers
0.2W 0.1W
200V 150V
More than 100MΩ at DC500V
AC500V, 1 minute
Less than 20mΩ
12VDC, 1A
15,000 cycles
10,000 cycles

RV16C

270°±5°
20-200gf.cm
4Kgf.cm/Max.
40°Max
200-600gf.cm
S.P.S.T.

Linear taper B Other tapers
0.2W 0.1W
200V 150V
More than 100MΩ at DC500V
AC1,000V, 1 minute
Less than 100mΩ
250VDC, 10A
100,000 cycles
10,000 cycles

RV16A

Mechanical

Total rotation angle
Rotation torque
Shaft stop strength
Click position
Click torque

300°±5°
20-200gf.cm
6Kgf.cm/Max.
Center or 21 positions or 41 positions
100-400gf.cm

Electrical

Rated wattage
Rated voltage
Insulation resistance
Dielectric
Tap position
Tracking error

Linear taper B Other tapers
0.125W 0.06W
200V 150V
More than 100MΩ at DC500V
AC500V, 1 minute
50% (150°)
Volume control: -40-0dB±3dB
tone, balance control: ≤2dB
at 50% point

AXIS ANGLE OF F-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 C.C.W. Position

ROTARY POTENTIOMETERS

電氣的性能 Electrical characteristics

項目 Items	嵌入式絕緣軸 Snap-In Insulated Shaft Potentiometers							
	9mm size		11mm size		14mm size			
	單連 Single unit	雙連 Dual unit	單連 Single unit	雙連 Dual unit For high-cut tone	雙連 Dual unit			
殘留阻抗 Residual resistance	R≤1KΩ	30ΩMax.	R≤10KΩ	20ΩMax.	R≤1KΩ	30ΩMax.	R≤30KΩ	30ΩMax.
	1KΩ <R ≤50KΩ	100ΩMax.	10KΩ <R <50KΩ	30ΩMax.	5KΩ ≤R ≤50KΩ	100Ω	30K<R ≤500KΩ	0.1%Max.
	50KΩ <R ≤100KΩ	300ΩMax.	50KΩ ≤R ≤500KΩ		50KΩ <R ≤100KΩ	200Ω	of total resistance	
	100KΩ <R ≤500KΩ	500ΩMax.	0.1%Max.		100KΩ <R ≤250KΩ	500Ω		
	500KΩ <R ≤1MΩ	1KΩMax.	of total resistance		250KΩ <R ≤500KΩ	1KΩ		

電氣的性能 Electrical characteristics

項目 Items	嵌入式絕緣軸 Snap-In Insulated Shaft Potentiometers	
	12型 12mm size	16型 16mm size
殘留阻抗 Residual resistance	$R \leq 30K\Omega$ $30K\Omega < R \leq 500K\Omega$	40Ω Max. 0.1% Max. to total resistance

電氣的性能 Electrical characteristics 金屬軸共通規格

項目 Items		9型 9mm size	12型 12mm size	16型, 24型 16mm size, 24mm size	40型 40mm size
殘留阻抗 Residual resistance	300° 迴轉 300° rotation	$R \leq 10K\Omega$ 20 Ω Max. $10K\Omega < R < 50K\Omega$ 30 Ω Max. $50K\Omega \leq R$ 全阻抗值 0.1% 以下 $50K\Omega \leq R$, 0.1% Max. of total resistance	3 Ω Max.	$R \leq 10K\Omega$ 20 Ω Max. $10K\Omega < R \leq 50K\Omega$ 30 Ω Max. $50K\Omega < R$ 全阻抗值 公稱全阻抗值 0.1% 以下 0.1% or less of normal total resistance	3 Ω Max.
	120° 迴轉 120° rotation	$R \leq 10K\Omega$ 30 Ω Max. $10K\Omega < R$ 全阻抗值 0.2% 以下 $10K\Omega < R$, 0.2% Max. of total resistance	20 Ω Max.		

ROTARY POTENTIOMETERS

機械的性能 Mechanical characteristics

	絶縁軸 Insulated Shaft			金屬軸 Metal Shaft			
	9型 9mm size		9型金屬軸 9mm size	12型金屬軸 12mm size	16型 16mm size		
軸、押、拉力強度 Pull-push strength	50N { 5kg } Max.	80N { 8kg } Max.		100N Max. { 10kg } Max.			
軸搖動 Shaft wobble	0.8XL/20mm P-P Max.	Without bushing 0.7 L/20mmp-p Max. 0.7L/30mmp-p以下 With bushing 0.7 L/30mmp-p Max. With 500mg-g-cm 用500mg-g-cm	0.6L/20mm P-P Max.	The shaft wobble at the position of 5mm from the top when a load of A gf is applied to said position after mounting the bushing shall be B mm P-P Max.			
				Shaft length (mm)	Thrust A(gf)	Single and outer shafts B(mm P-P)	Inner shaft B(mm P-P)
				15	1000	0.14	—
				20	670	0.2	—
				25	500	0.27	0.4
				30	400	0.34	0.5

電氣的性能 Electrical characteristics

一般用阻值 Normal total resistance

迴轉型電位器 Rotary potentiometers	
RV09	5K, 10K, 20K, 50K, 100K, 200K
	5K, 10K, 20K, 50K, 100K, 200K
RV12	5K, 10K, 20K, 50K, 100K, 200K, 500K
	5K, 10K, 20K, 50K, 100K, 200K, 500K
RV16,17,24	1K, 5K, 10K, 50K, 100K, 200K, 500K, 1M
	5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M

僅供使用參考

This page is for your reference only.

Resistance taper standards

Taper	Effective rotation angle / Effective travel			
	20%	50%	60%	80%
A		10-25		
B		40-60		
C		10-25		
D		2-15		
E		19-33		
RD		2-15		
W	1-7	40-60		93-99

Across Terminal 1-2 A, B, D, K, W
Across Terminal 2-3 C, E, R, D