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### Jameco Part Number 255522

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

RV	09	Α	1	<u> </u>	01	- <b>20</b>	F	<b>P</b> -	– <u>B</u> 5K –	<u>    X    X</u>	9999
1	2	3	4	5	6	7	8	9	10 11	12 13	3 14

#### 1.Product Line Ex : RV-Rotary Potentiometer

# 2.Model

### 3. Structure Difference

Туре	Difference
T ∙ R	With Tap

#### 4. Derivatives

#### 5. Type of Terminal

Code	Type of Terminal
10	Solderlug
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

訂單指定事項:	ORDERING INSTRUCTIONS
開立訂單時,用途請依下表記載予以指定製品之規格詳	WHEN PLACING YOUR ORDER. PLEASE
細記載並確認之。	SPECIFY THE FOLLOWING ITEMS ACCORDING
	TO YOUR APPLICATION NEEDS. FOR MORE
	INFORMATION ABOUT OUR PRODUCTS,
	PLEAE REFER TO THE SPECIFICATIONS
	GIVEN ON THE FOLLOWING PAGES.
項目:	ITEMS :
1.型號◎	1.MODEL.
2. 公稱阻値及線性要求。	2.NORMAL RESISTANCE VALUE AND TAPER.
3. 軸型及長度。	3.SHAFT STYLE AND LENGTH.
4. 端子型式。	4.TERMINAL STYLE.
5. 段點的有無。	5.WITH CLICK OR WITHOUT CLICK, CLICK POSITION.
	6.WITH TAP OR WITHOUT TAP, TAP POSITION.
7. 音量用或其它。	7.FOR VOLUME CONTROL OR OTHER USE.
8. 手焊錫或錫爐焊錫。	8.MANUAL SOLDERING OR DIP SOLDERING.

# 11. Resistance Value

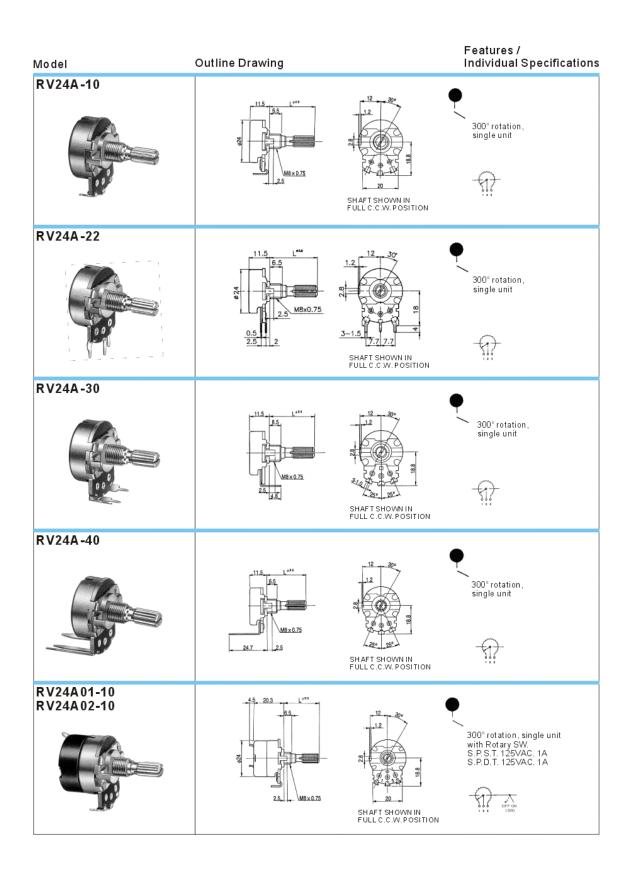
# 12. Materials & Methods for Manufacturing Shaft & Bushing

#### 13. Number of Click :

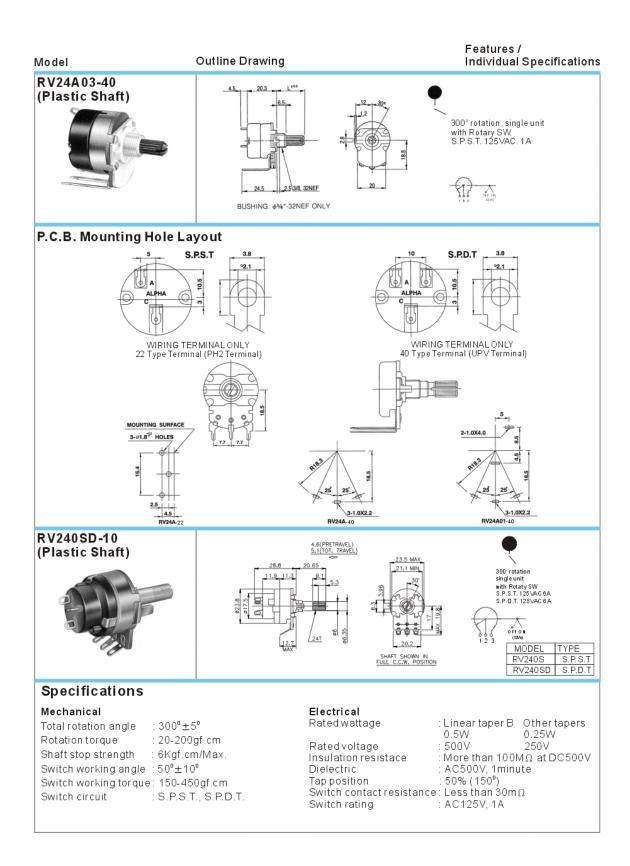
Code	Specification		
0	None		
С	Center Click		
D	11 Positions click		
Е	21 Positions click		
F	41 Positions click		

# 14. Serial No.

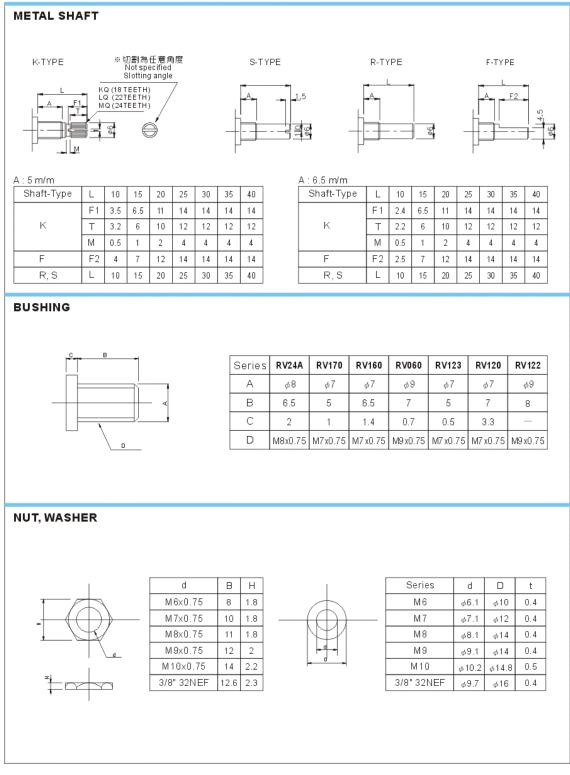
# 24mm SIZE METAL SHAFT SERIES



# 24mm SIZE WITH SWITCH INSULATED SHAFT SERIES



#### Standard Shaft, Bushing, Nut and Washer Dimensions



# **AXIS ANGLE OF F-TYPE SHAFT**

Symbol
F00,(O)
F01,(A)
F02,(B)
F03,(C)
F04,(D)
F05,(E)
F06, (F)
F07,(G)
F08,(H)
F09,(J)
F10, (K)
F11,(L)

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

#### 電氣的性能 Electrical characteristics

	嵌入式絕緣軸 Snap-In Insulated Shaft Potentiometers							
項目	9mm s	ize		11mm	14mm size			
ltems	單連 Singleunit	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 1KΩ <r≦50kω 50KΩ <r≦100kω 100KΩ <r≦500k 500KΩ <r≦1mω< th=""><th>Ω 500ΩMax.</th><th>R≦10KΩ 10KΩ <r<50kω 50KΩ ≤R≤500KΩ 0.1%Max. of total resistance</r<50kω </th><th></th><th>R≦1KΩ 5KΩ ≤R≦50KΩ 50KΩ <r≦100kω 100KΩ <r≦250k 250KΩ <r≦500k< th=""><th>100 Ω 200 Ω Ω 500 Ω</th><th>R≦30KΩ 30K<r≦500kω of totalresistance</r≦500kω </th><th>30ΩMax. 0.1%Max.</th></r≦500k<></r≦250k </r≦100kω </th></r≦1mω<></r≦500k </r≦100kω </r≦50kω 	Ω 500ΩMax.	R≦10KΩ 10KΩ <r<50kω 50KΩ ≤R≤500KΩ 0.1%Max. of total resistance</r<50kω 		R≦1KΩ 5KΩ ≤R≦50KΩ 50KΩ <r≦100kω 100KΩ <r≦250k 250KΩ <r≦500k< th=""><th>100 Ω 200 Ω Ω 500 Ω</th><th>R≦30KΩ 30K<r≦500kω of totalresistance</r≦500kω </th><th>30ΩMax. 0.1%Max.</th></r≦500k<></r≦250k </r≦100kω 	100 Ω 200 Ω Ω 500 Ω	R≦30KΩ 30K <r≦500kω of totalresistance</r≦500kω 	30ΩMax. 0.1%Max.

### 電氣的性能 Electrical characteristics

	嵌入式	絶縁軸 Snap-In Insulated Shaft Potentiometers			
項目 Items	12型 12mm size	16型 16mm size			
殘留阻抗 Residual resistance	R ≦ 30K Ω 30K Ω < R ≦ 5000K Ω	40ΩMax. 0.1% Max.tototalresistance			

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

-	目 ems	9型 9mm size	12型 12mm size	16型, 24型 16mm size, 24mm size	40型 40mm size
殘留阻抗	300°迴轉 300°rotation	R≦10KΩ20ΩMax. 10KΩ <r <50kω30ωmax.<br="">50KΩ≦R全阻抗值 0.1%以下 50KΩ≦R,0.1%Max. of total resistance</r>	3Ω Max.	R≦10KΩ20ΩMax. 10KΩ <r≦50kω30ωmax. 50KΩ <r全阻抗値 公稱全阻抗値0.1%以下 0.1% or less of normal total resistance</r全阻抗値 </r≦50kω30ωmax. 	3Ω Max.
Residual resistance	120°迴轉 120°rotation	R≦10KΩ30ΩMax. 10KΩ <r全阻抗值 0.2%以下 10KΩ <r,0.2%max. of total resistance</r,0.2%max. </r全阻抗值 	20 Max.		

#### 機械的性能 Mechanical characteristics

	絶	金屬軸 Metal Shaft					
	9型 9mm size		9型金屬軸 9mm size	12型金屬輯 12mm size		16型 16mm size	9
軸、押、拉力強度 Pull-push strength	50N {5kg} Max.	80N {8kg}	Max.		100N Max.	{10kg} 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 Bmm P-P Max.			
軸搖動 Shaftwobble	0.8XL/20mm	Without bushing 0.7 L/20mmp-p Max. 0.7L/30mmp-p以下 With bushing 0.7 L/30mmp-p Max. With 500mg-cm 用500mg-cm	0.6L/20mm	Shaft length (mm)	Thrust A(gf)	Single and outer shafts B(mm P-P)	Inner shaft B(mm P-P)
	P-P Max.			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 potentiom eters					
RV09	5K, 10K, 20K, 50K, 100K, 200K				
RV05	5K, 10K, 20K, 50K, 100K, 200K				
DV40	5K, 10K, 20K, 50K, 100K, 200K, 500K				
RV12	5K, 10K, 20K, 50K, 100K, 200K, 500K				
BV46 47 04	1K, 5K, 10K, 50K, 100K, 200K, 500K, 1M				
RV16,17,24	5K, 10K, 20K, 50K, 100K, 200K, 500K, 1M				

# Resistance taper standards

	Taper	Effective rotation angle / Effective travel			
		20%	50%	60%	80%
	A		10-25		
	в		40-60		
	с		10-25		
	D		2-15		
	E		19-33		
	RD		2-15		
N	w	1-7	40-60		93-99

僅供使用參考 This page is for your reference only.

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