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Jameco Part Number 286273

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

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

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
E	21 Positions click
F	41 Positions click

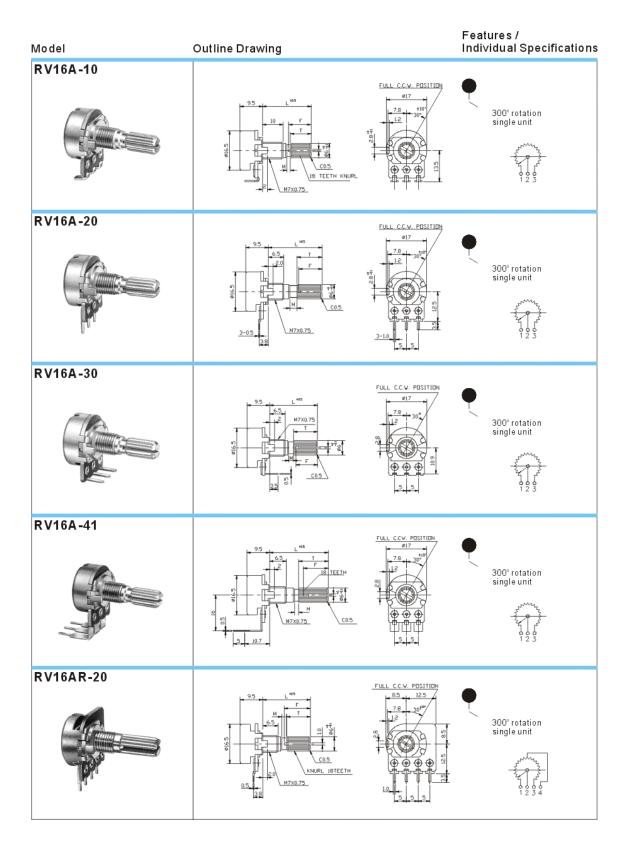
14. Serial No.

訂單指定事項:

ORDERING INSTRUCTIONS

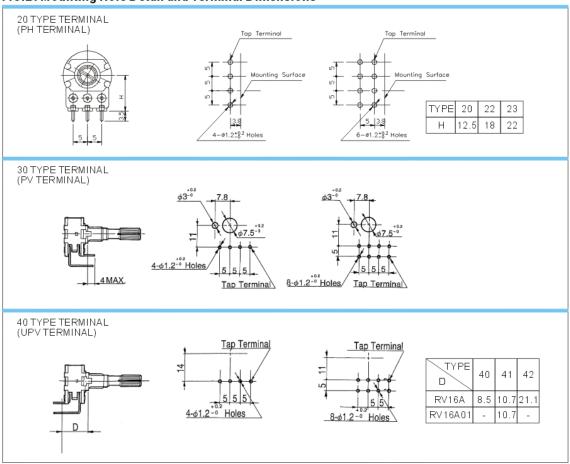
開立訂單時,用途請依下表記載予以指定製品之規格詳	WHEN PLACING YOUR ORDER. PLEASE
細記載並確認之。	SPECIFY THE FOLLOWING ITEMS ACCORDING
	TO YOUR APPLICATION NEEDS. FOR MORE
	INFORMATION ABOUT OUR PRODUCTS,
	PLEAE REFER TO THE SPECIFICATIONS
	GIVEN ON THE FOLLOWING PAGES.
項目:	ITEMS :
1.型號。	1.MODEL.
2. 公稱阻值及線性要求。	2.NORMAL RESISTANCE 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. 中間抽頭的有無。	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.

16mm SIZE METAL SHAFT SERIES



16mm SIZE METAL SHAFT SERIES

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



Specifications

Mechanical Total rotation angle Rotation torque Shaft stop strength Switch working angle/stroke Switch working torque/force Switch circuit Electrical Rated wattage Rated voltage Insulation resistance Dielectric Switch contact resistance Switch rating Rotation life Switch life	$\begin{array}{l} \textbf{RV16002} \\ 300^{\circ} \pm 5^{\circ} \\ 20\text{-}200gf.cm \\ 6\text{Kgf.cm/Max.} \\ 50^{\circ} \pm 10^{\circ} \\ 150\text{-}450gf.cm \\ \text{S.P.S.T.} \\ \text{Linear taper B} \\ 0.2W \\ 200V \\ 150V \\ \text{More than } 100\text{M}\Omega \text{ at DC500V} \\ \text{AC500V, 1 minute} \\ \text{Less than } 20\text{m}\Omega \\ 12\text{VDC, 1A} \\ 15,000 \text{ cycles} \\ 10,000 \text{ cycles} \\ \end{array}$	$\begin{array}{llllllllllllllllllllllllllllllllllll$
DV46A	 	

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	tone, balance c	0.06W 150V 1Ω at DC500V ute :-40-0dB≦3dB
			tone, balance c at 50% point	ontrol:≦2dB

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

	嵌入式絶緣軸 Snap-Ininsulated ShaftPotentiometers							
項目	9mm size		11mm size			1 4mm size		
Items	單連 Singleunit	雙連 Dual unit	單連 Single un	it	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 500 Ω Max.</th><th>$\begin{split} R & \leq 10 K \Omega \\ 10 K \Omega & < R < 50 K \Omega \\ 50 K \Omega & \leq R \leq 500 K \Omega \\ 0.1 \% \text{Max.} \\ \text{of total resistance} \end{split}$</th><th></th><th>R≤1KΩ 5KΩ ≤R≤50KΩ 50KΩ <r≤100kω 100KΩ <r≤250kω 250KΩ <r≤500kω< th=""><th>100 Ω 200 Ω Ω 500 Ω</th><th> </th><th>30 ΩMax. 0.1 %Max.</th></r≤500kω<></r≤250kω </r≤100kω </th></r≦1mω<></r≦500k </r≦100kω </r≦50kω 	Ω 500 Ω Max.	$\begin{split} R & \leq 10 K \Omega \\ 10 K \Omega & < R < 50 K \Omega \\ 50 K \Omega & \leq R \leq 500 K \Omega \\ 0.1 \% \text{Max.} \\ \text{of total resistance} \end{split}$		R≤1KΩ 5KΩ ≤R≤50KΩ 50KΩ <r≤100kω 100KΩ <r≤250kω 250KΩ <r≤500kω< th=""><th>100 Ω 200 Ω Ω 500 Ω</th><th> </th><th>30 ΩMax. 0.1 %Max.</th></r≤500kω<></r≤250kω </r≤100kω 	100 Ω 200 Ω Ω 500 Ω		30 ΩMax. 0.1 %Max.

電氣的性能 Electrical characteristics

C FIGHE INC.	E Electrical citatacteristics			
	嵌入式絶緣軸 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∶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	300°迴轉 300°rotation	R≦10KΩ 20Ω Max. 10KΩ <r 30ω="" <50kω="" max.<br="">50KΩ ≦R全阻抗值 0.1%以下 50KΩ ≦R,0.1%Max. of total resistance</r>	3Ω Max.	R≦10KΩ 20Ω Max. 10KΩ <r≦50kω 30ω="" max.<br="">50KΩ <r全阻抗值 公稱全阻抗值0.1%以下 0.1% or less of normal total resistance</r全阻抗值 </r≦50kω>	3Ω Max.
Residual resistance	120°迴轉 120°rotation	R≦10KΩ 30Ω Max. 10KΩ <r全阻抗值 0.2%以下 10KΩ <r,0.2% max.<br="">of total resistance</r,0.2%></r全阻抗值 	20Ω 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型金屬朝 12mm size		16型 16mm size	:
軸、押、拉力強度 Pull-push strength	50N {5kg} Max.	80N {8kg}	100N Max. {10kg} Max.				
	0.8XL/20mm	Without bushing 0.7 ☑20mmp-p Max. 0.7☑30mmp-p以下 With bushing	1/20mmp-p Max. 7//30mmp-p以下 With bushing 0.6//20mm 1/30mmp-p Max. P-P Max.	The shaft wobble at the position of 5 mm 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.			
軸搖動 Shaftwobble				Shaft Iength (mm)	Thrust A(gf)	Single and outer shafts B(mm P-P)	Inner shaft B(mm P-P)
SHAIL WODDIC	P-P Max.	0.7 L/30mmp-p Max. With 500mg-cm		15	1000	0.14	_
		用500mg-cm		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			
	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			
В		40-60			
С		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