

12,14mm Size Snap-In Insulated Shaft Potentiometers

12,14型絶縁軸スナップイン・ポテンシオメータ

FEATURES

- Newly designed 12mm and 14mm size snap-in potentiometers to meet the electronics equipment trend for further miniaturization and lower profiles.
- High performance miniature potentiometer created by incorporating Noble's ICB (Integrated Control Block) film integration technology.
- Film makes smooth rotational feeling possible.
- Unit with or without bushing are available together with tap and detent.
- Conform RoHS Ver. 2.3

特長

- エレクトロニクス機器の小型化、薄型化に対応して新しく設計されたスナップインタイプの12型、14型回転型ポテンシオメータです。
- ノーブルのICB (Integrated Control Block) 思想のフィルム・インテグレーション・テクノロジーが生んだ小型高性能ポテンシオメータです。
- フィルムの採用により、なめらかな回転フィーリングが得られます。
- RoHS Ver. 2.3適合品です。

APPLICATIONS

Various Potentiometers for volume, tone, balance and microphone volume control etc. of Radio, Radio-Cassette-Recorder (with or without CD), Amplifier, Mixer etc.

用途

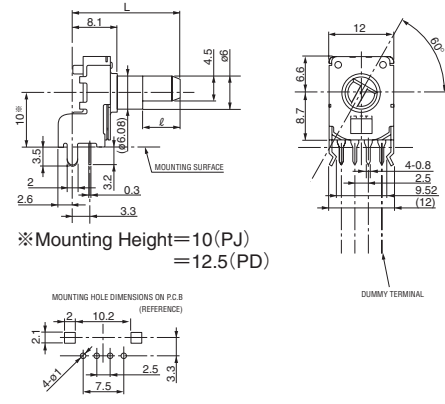
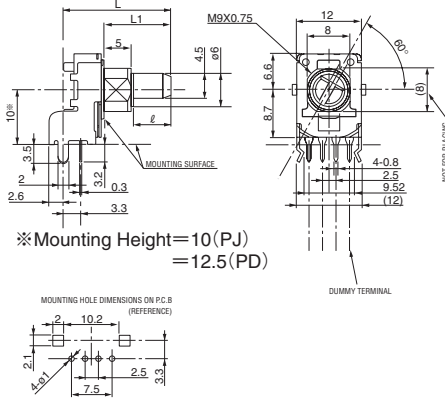
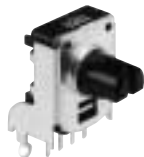
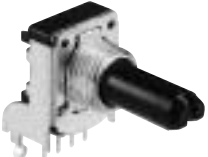
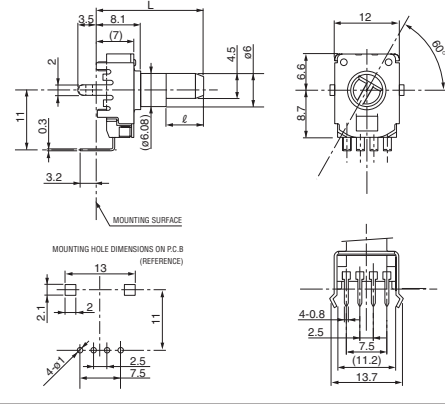
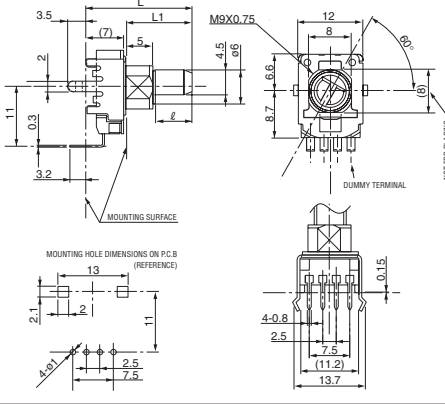

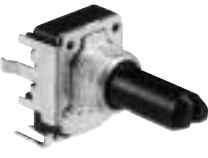
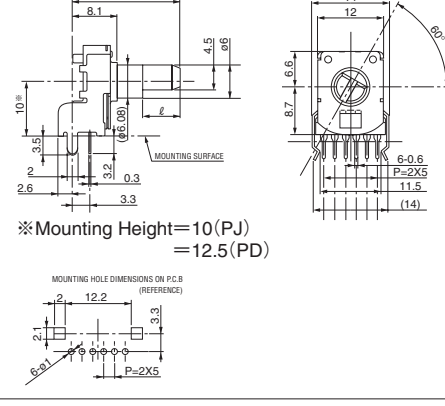
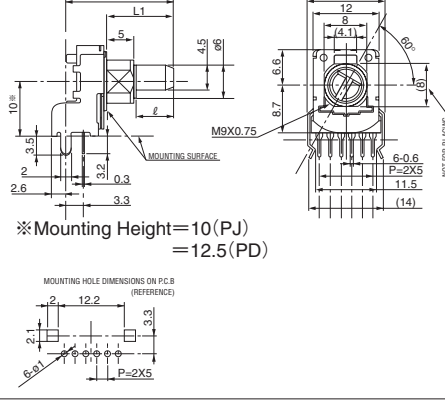
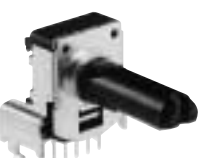
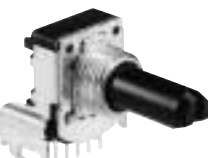
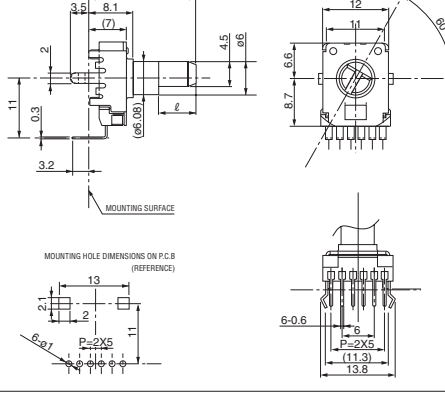
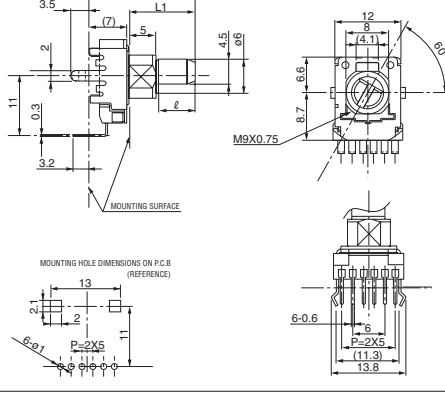


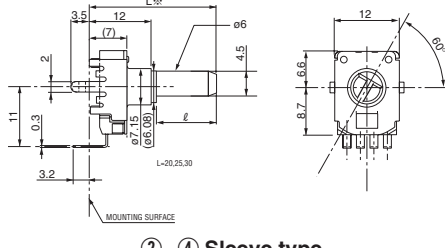
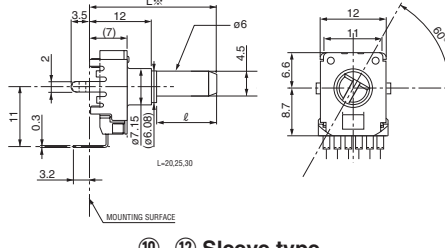

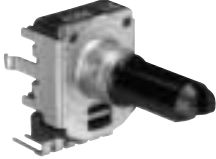
ラジオ、ラジオ付きカセットテープ (CD) レコーダ、アンプ、オーディオミキサーなどの各種 (音量、トーン、バランス、マイク用などの) ポリウムです。

Product Variation

製品の種類

Size サイズ	Bushing or Sleeve 取付け方法	Mounting style 取付け方向	Mounting height 取付け高さ	Circuit Diagram 抵抗体の回路	Order Number 型式呼称	Relation No. 関連NO.	
12mm	Without Bushing	Horizontal 横型	10.0mm	Single-Element (Central tap is possible)	XV012111NPJ	①	
			12.5mm		XV012111NPD		
		Vertical 縦型	—		XV012111NPV	②	
			—		XV012113NPV	② Sleeve type	
		With Bushing	Horizontal 横型	10.0mm	Dual-Elements (High-Cut Tone)	XV012111GPJ	③
				12.5mm		XV012111GPD	
			Vertical 縦型	—		XV012111GPV	④
				—		XV012113GPV	④ Sleeve type
	Without Bushing	Horizontal 横型	10.0mm	Single-Element (Central tap is possible)	XVB12111NPJ	⑤	
			12.5mm		XVB12111NPD		
			Vertical 縦型		—	XVB12111NPV	⑥
					—	XVB12111GPJ	⑦
		With Bushing	Horizontal 横型	10.0mm	Dual-Elements (High-Cut Tone)	XVB12111GPD	
				12.5mm		XVB12111GPV	⑧
			Vertical 縦型	—		XV012211GPJ	⑨
				—		XV012211GPD	
	Without Bushing	Horizontal 横型	10.0mm	Dual-Elements (Without Tap) For Vol	XV012211GPV	⑩	
			12.5mm		XV012213GPV		⑩ Sleeve type
			Vertical 縦型		—	XV012311GPJ	⑪
					—	XV012311GPD	
With Bushing		Horizontal 横型	10.0mm	Dual-Elements (Without Tap) For Tone	XV012311GPV	⑫	
			12.5mm		XV012313GPV		⑫ Sleeve type
		Vertical 縦型	—		XVB12211GPJ	⑬	
			—		XVB12211GPD		
Without Bushing	Horizontal 横型	10.0mm	Dual-Elements (Without Tap) For Vol	XVB12211GPV	⑭		
		12.5mm		XVB12311GPJ		⑮	
		Vertical 縦型		—	XVB12311GPD		
				—	XVB12311GPV	⑮	
	Without Bushing	Horizontal 横型	10.0mm	Dual-Elements (Without Tap) For Tone	XVB12311GPD	⑯	
			12.5mm		XVB12311GPV		
			Vertical 縦型		—	XV014111GPJ	⑰
					—	XV014111GPD	
With Bushing		Horizontal 横型	10.0mm	Dual-Elements (With Tap) For Tone	XV014111GPV	⑱	
			12.5mm		XVB14111GPJ		
		Vertical 縦型	—		XVB14111GPD	⑲	
			—		XVB14111GPV		
14mm	Without Bushing	Horizontal 横型	10.0mm	Dual-Elements (With Tap) For Vol	XV014112GPJ	⑰	
			12.5mm		XV014112GPD		
		Vertical 縦型	—		XV014112GPV	⑱	
			—		XVB14112GPJ	⑲	
	With Bushing	Horizontal 横型	10.0mm		Dual-Elements (With Tap) For Vol		XVB14112GPD
			12.5mm			XVB14112GPV	
		Vertical 縦型	—			XV014111GPJ	⑰
			—			XV014111GPD	

*Center detent is available for all types.

Model	Dimensions	Unit:mm	Model	Dimensions	Unit:mm
XV012111NPJ XV012111GPJ			XVB12111NPJ XVB12111GPJ		
 ① ③	※Mounting Height=10(PJ) =12.5(PD)		 ⑤ ⑦	※Mounting Height=10(PJ) =12.5(PD)	
XV012111NPV XV012111GPV			XVB12111NPV XVB12111GPV		
 ② ④			 ⑥ ⑧		
XV012211GPJ XV012311GPJ			XVB12211GPJ XVB12311GPJ		
 ⑨ ⑪	※Mounting Height=10(PJ) =12.5(PD)		 ⑬ ⑮	※Mounting Height=10(PJ) =12.5(PD)	
XV012211GPV XV012311GPV			XVB12211GPV XVB12311GPV		
 ⑩ ⑫			 ⑭ ⑯		
XV012113NPV XV012113GPV			XV012213GPV XV012313GPV		
 ②, ④ Sleeve type			 ⑩, ⑫ Sleeve type		

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Model	Dimensions	Unit:mm	Model	Dimensions	Unit:mm
XV014111GPJ	<p>※ Mounting Height=10(PJ) =12.5(PD)</p> <p>MOUNTING SURFACE</p> <p>DUMMY TERMINAL</p> <p>MOUNTING HOLE DIMENSIONS ON P.C.B REFERENCE</p>		XVB14111GPJ	<p>※ Mounting Height=10(PJ) =12.5(PD)</p> <p>MOUNTING SURFACE</p> <p>DUMMY TERMINAL</p> <p>MOUNTING HOLE DIMENSIONS ON P.C.B REFERENCE</p>	
XV014112GPJ		XVB14112GPJ			
XV014111GPV	<p>MOUNTING SURFACE</p> <p>DUMMY TERMINAL</p> <p>MOUNTING HOLE DIMENSIONS ON P.C.B REFERENCE</p>		XVB14111GPV	<p>MOUNTING SURFACE</p> <p>DUMMY TERMINAL</p> <p>MOUNTING HOLE DIMENSIONS ON P.C.B REFERENCE</p>	
XV014112GPV		XVB14112GPV			

Example of indicating Order Number

注文番号の記載例

XV012311GPJ 15F 15A10K CC

Product Variation
製品の種類

In case of ordering "Center detent"
センタークリック付きの指定

Indicating Resistance & Taper/10K-OHM 15A :
Select form Code Table-2
抵抗素子の仕様 : Code Table-2参照

Indicating shaft length & type/15mmF : Select form Code Table-1
軸の長さ及び形状 : Code Table-1参照

Code Table-1-1

Without Bush

With Bush

Order Number	Shaft length		Order Number	Shaft length		
	L1	ℓ		L	L1	ℓ
15F	15	4.5	20F	20	12.5	7
20F	20	7	22.5F	22.5	15	7
25F	25	12	25F	25	17.5	12
30F	30	12	27.5F	27.5	20	12
			30F	30	22.5	12

Code Table-1-2 (Shaft Design)

Without Bushing	With Bushing

Code Table-2-1 (①~⑬)

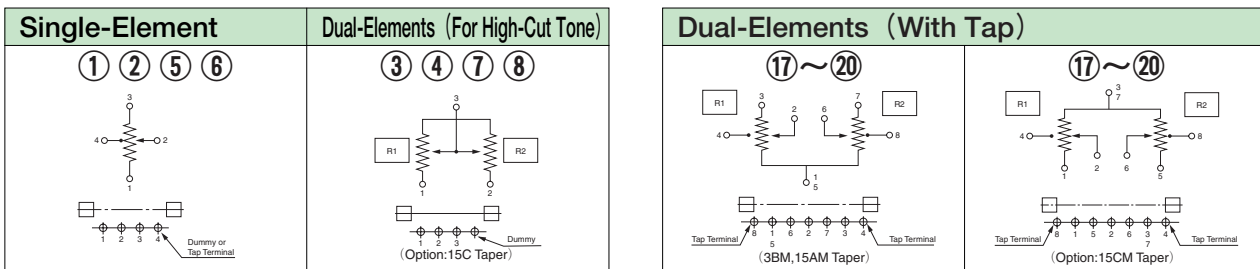
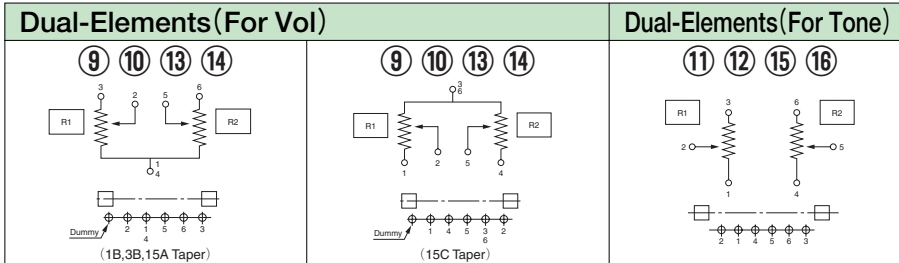
Order Number	Resistance&Taper	Order Number	Resistance&Taper
1B10K	10K-OHM 1B	15C10K	10K-OHM 15C
1B20K	20K-OHM 1B	15C20K	20K-OHM 15C
1B50K	50K-OHM 1B	15C50K	50K-OHM 15C
1B100K	100K-OHM 1B	15C100K	100K-OHM 15C
15A10K	10K-OHM 15A	3B10K	10K-OHM 3B
15A20K	20K-OHM 15A	3B20K	20K-OHM 3B
15A50K	50K-OHM 15A	3B50K	50K-OHM 3B
15A100K	100K-OHM 15A	3B100K	100K-OHM 3B

2-1 (⑰~⑳) With Tap

Order Number	Resistance&Taper
3BM10K	10K-OHM 3BM
3BM20K	20K-OHM 3BM
3BM50K	50K-OHM 3BM
3BM100K	100K-OHM 3BM
15AM10K	10K-OHM 15AM
15AM20K	20K-OHM 15AM
15AM50K	50K-OHM 15AM
15AM100K	100K-OHM 15AM
15CM10K	10K-OHM 15CM
15CM20K	20K-OHM 15CM
15CM50K	50K-OHM 15CM
15CM100K	100K-OHM 15CM

*15AM,15CM Taper is option type.

Code Table-2-2 (Circuit)



SPECIFICATION

	① ② ⑤ ⑥	③ ④ ⑦ ⑧	⑨~⑬	⑰~⑳
Operating Temperature Range 使用温度範囲	-10 to 70°C			
Rated Power 定格電力	0.05W	Operating Current 1mA AC only 最高使用電流 1mA	0.05W	
Maximum Operating Voltage 最高使用電圧	AC50V,DC20V		DC20V	
Nominal Total Resistance 公称全抵抗値	10kΩ,20kΩ,50kΩ,100kΩ			
Total Resistance Tolerance 全抵抗値許容差	Within ±20% of the nominal total resistance			
Resistance Taper 抵抗変化特性	1B,15A,15C,3B			3BM,(15AM,15CM)
Insulation Resistance 絶縁抵抗	100MΩ at DC500V	100MΩ at DC250V		
Dielectric Strength 耐電圧	AC500V for 1 minute		AC300V for 1 minute	
Tracking Error 相互偏差	-		For volume control : Within ± 3dB at a range of 0~40dB. Except for 1B Taper. For tone control : Within ± 2dB at center.	
Total Rotational Angle 全回転角度	300±5° C			
Rotational Torque 回転トルク	3 to 20 mN.m at (5 to 35°C)			
Rotational Stop Strength of the Shaft シャフトの回転止め強さ	Without Bushing=0.5N.m With Bushing=0.6N.m			
Push/Pull Strength of the Shaft シャフトの押し、引張り強さ	80N max.			
Endurance(Sliding) 耐久性(しゅう動)	15,000 cycles	10,000 cycles	15,000 cycles	

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