

Rotary Potentiometers ロータリポテンシオメータ

14mm Size Snap-In Insulated Shaft Potentiometers

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

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適合品です。

APPLICATIONS

Various Potentiometers for volume, tone, balance and microphone volume control etc. of Amplifier, Mixer etc.

用途

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）ボリュームです。

DIMENSIONS 外形寸法

Model	Dimensions	Unit:mm	Model	Dimensions	Unit:mm
XV014111GPJ XV014112GPJ			XVB14111GPJ XVB14112GPJ (With Bushing)		
XV014111GPV XV014112GPV			XVB14111GPV XVB14112GPV (With Bushing)		

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.
14mm	Without Bushing	Horizontal 横型	10.0mm	Dual-Elements (With Tap)	XV014111GPJ	①
			12.5mm		XV014111GPD	
		Vertical 縦型	—		XV014111GPV	②
			—		XV014111GPD	
	With Bushing	Horizontal 横型	10.0mm		XVB14111GPJ	③
			12.5mm		XVB14111GPD	
		Vertical 縦型	—		XVB14111GPV	④
			—		XVB14111GPD	
Without Bushing	Horizontal 横型	10.0mm	Dual-Elements (Without Tap)	XV014112GPJ	①	
		12.5mm		XV014112GPD		
	Vertical 縦型	—		XV014112GPV	②	
		—		XV014112GPD		
Horizontal 横型	10.0mm	XVB14112GPJ		③		
	12.5mm	XVB14112GPD				
Vertical 縦型	—	XVB14112GPV		④		
	—	XVB14112GPD				

*Center detent is available for all types.

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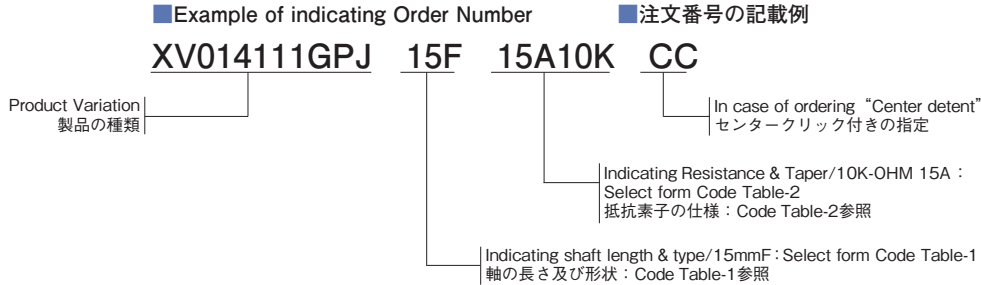
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TYPE DESIGNATION 品名構成



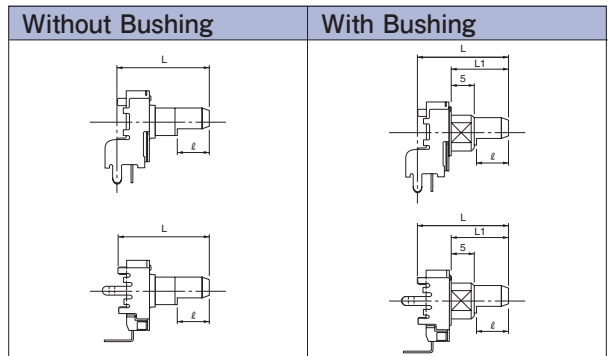
Code Table-1

Without Bushing

With Bushing

Order Number	Shaft length		Order Number	Shaft length		
	L	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
22.5F	22.5	7	30F	30	22.5	12
27.5F	27.5	2				

Code Table-1 (Shaft Design)



Code Table-2-1 Without Tap

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

2-1 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

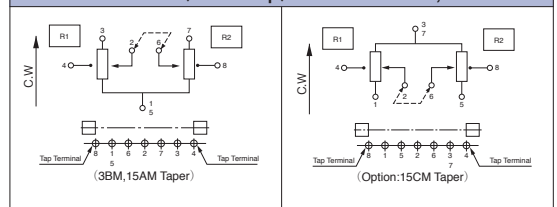
*15AM,15CM Taper is option type.

SPECIFICATIONS 仕様

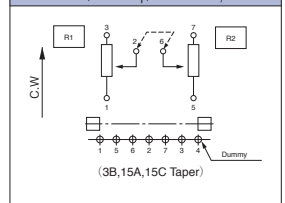
Operating Temperature Range 使用温度範囲	-10 to 70°C
Rated Power 定格電力	0.05W
Maximum Operating Voltage 最高使用電圧	AC50V
Nominal Total Resistance 公称全抵抗値	10kΩ,20kΩ,50kΩ,100kΩ
Total Resistance Tolerance 全抵抗値許容差	Within ±20% of the nominal total resistance
Resistance Taper 抵抗変化特性	1B,3B,15A,15C 3BM,(15AM,15CM)
Insulation Resistance 絶縁抵抗	100MΩ at DC500V
Dielectric Strength 耐電圧	AC300V for 1 minute
Tracking Error 相互偏差	For volume control : Within ±3dB at a range of 0~40dB. Except for B Taper. For tone control : Within ±2dB at center.
Total Rotational Angle 全回転角度	300±5°
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	0.5N·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

Code Table-2-2 (Circuit)

Dual-Elements (With Tap) at XV014111, XVB14111



Dual-Elements(Without Tap) at XV014112, XVB14112



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