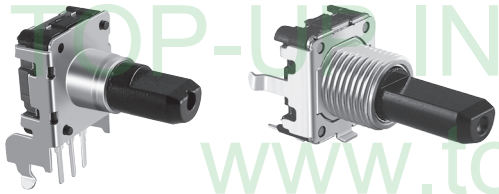
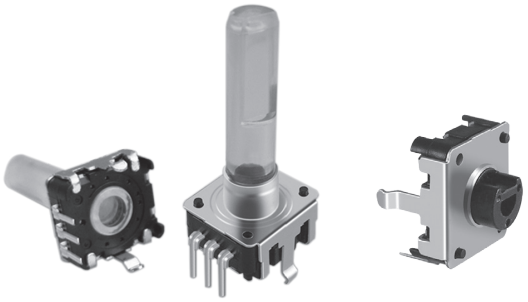
12mm Size Series Encoders

Low-Profile Type

TOP-UP





▲FEATURE

- High-precision rotary type encoder.
- Compact design, long life and high reliability.
- Low cost as compared with optical type.
- Available in a wide variety of line up to meet all user needs.

▲APPLICATIONS

- All kinds of level control, tuning and timer setting in audio-visual equipment, ordinary household electric appliances, radio equipment, communications equipment, etc.

Common Specifications

Pulse	Number of detent	Phase difference (msec)	Chattering (msec)	Sliding noise (msec)	Insulation resistance	Dielectric strength	Detent torque (gf•cm)	Rotational life (cycle)
12	0	4	3	2	250V DC 100MΩ MIN	300V AC 1 min	30~200 (0 DETENT: 50gf.cm max)	30,000
	12							
	24							
24	0	3.5	3	2				
	24							

Switch Specifications

Rating	Contact resistance	Insulation resistance	Dielectric strength	Contact arrangement	Travel of switch (mm)	Operating force (gf)	Operating life (cycle)
DC 5V 10mA	100mΩ	250V DC 100MΩ MIN	300V AC 1 min	PUSH ON	0.5	300^{+150}_{-100}	20,000

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TOP-UP

EC12P Series Code Explanation

EC12P	S	D	V	B	F	A	-	D	-	20	F	T	-	12	-	12C	-	□□□
1	2	3	4	5	6	7		8		9	10	11		12		13		14

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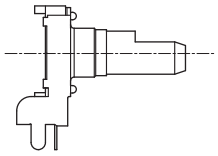
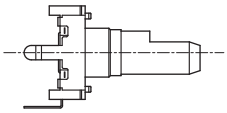
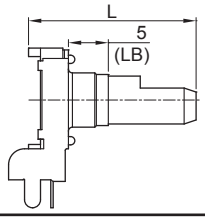
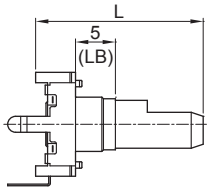
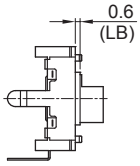
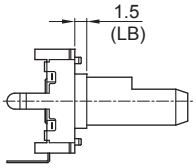
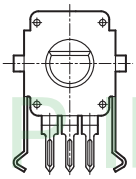
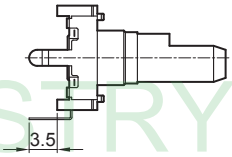
1. Product Lines of EC12P (12mm Insulated Shaft Encoder)
2. Switch : Blank - Without Switch , S-With Switch
3. Switch Travel : D - 0.5mm
4. Horizontal or Vertical Type : H - Horizontal / V - Vertical

H	V
	

5. With Bushing : Blank- Without Bushing ; B- with Bushing
6. With Frame : F
7. "LB" Length : Blank-5mm (Standard Type)

Horizontal	Vertical		
Standard	Standard	A	C
			

8. Type of Terminal

P.C.B Type			
	Horizontal		Vertical
	B		D
			

EC12P Series Code Explanation

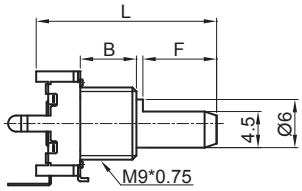
EC12P	S	D	V	B	F	A	-	D	-	20	F	T	-	12	-	12C	-	□□□
1	2	3	4	5	6	7		8		9	10	11		12		13		14

9. Shaft Length

10. Type of Shaft

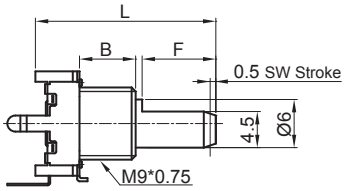
F - Type

With Bushing (W/O Switch)



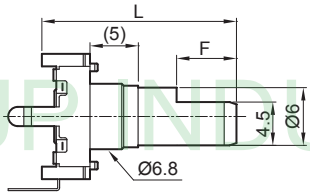
L	17.5	20	25	30
F	5	7	12	12
B	5	7	7	7

With Bushing (0.5mm Switch Stroke)



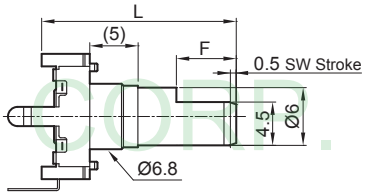
L	15	17.5	20	25	30
F	3	5	7	12	12
B	5	5	5	5	7

Without Switch



L	17.5	20	25	30
F	5	7	12	12

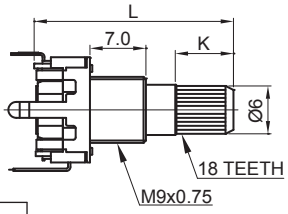
0.5mm Switch Stroke



L	15	17.5	20	25	30
F	3	5	7	12	12

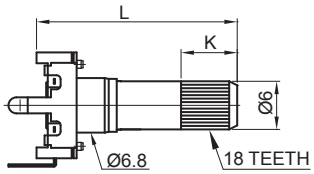
K - Type

With Bushing



L	25
K	7

Without Bushing



L	20	25
K	7	7

11. Shaft Color : T - Transparent , Blank - Black

12. Output Pulse : 12 - 12Pulse , 24 - 24Pulse

13. Number of Detents : Blank- None , 12 -12C , 24 -24C

14. Serial No.

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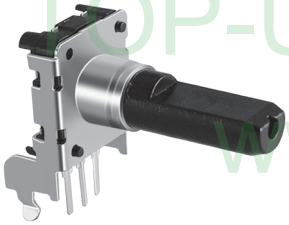
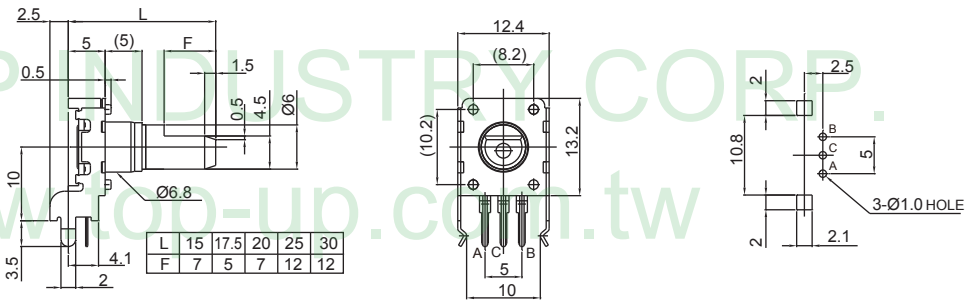
12mm Size Series Encoders

Low-Profile Type

TOP-UP

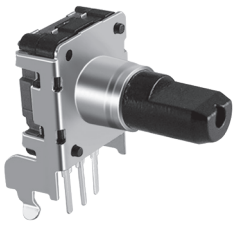
EC12PHF-B

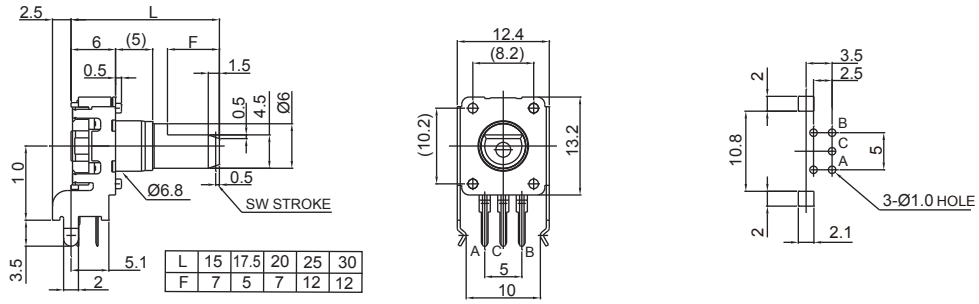




L	15	17.5	20	25	30
F	7	5	7	12	12

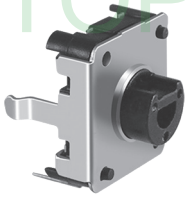
EC12PSDHF-B

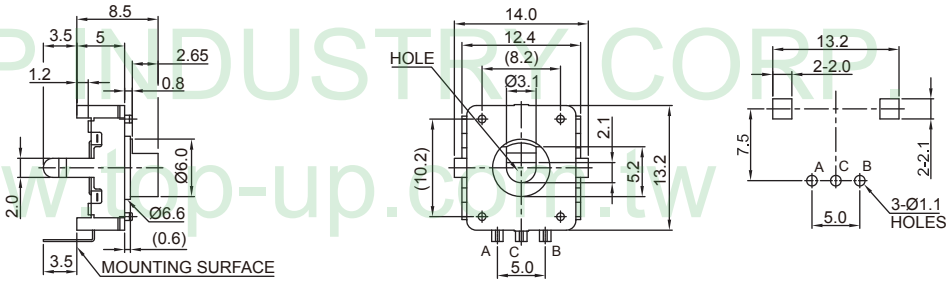




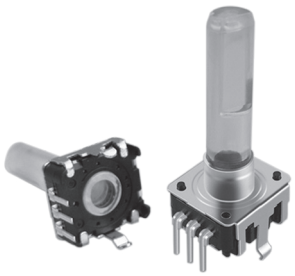
L	15	17.5	20	25	30
F	7	5	7	12	12

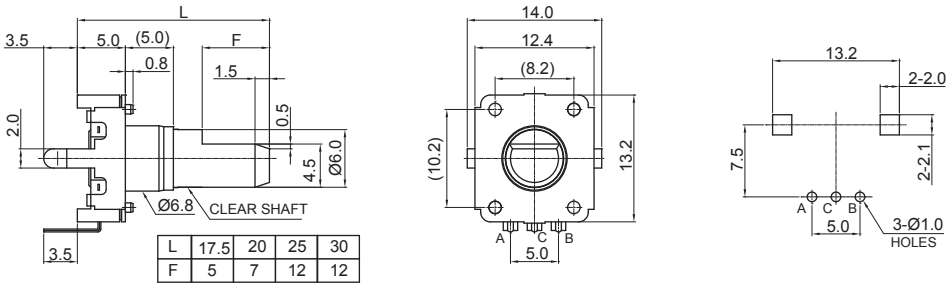
EC12PVFA-D





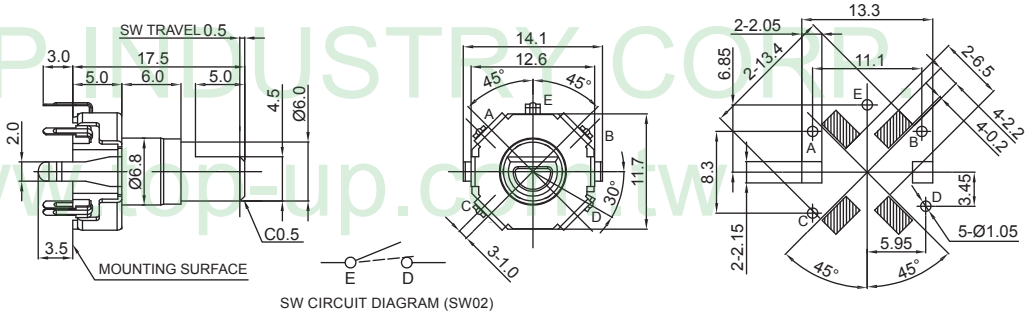
EC12PVF-D-__FT





L	17.5	20	25	30
F	5	7	12	12

EC128PSDVF-D



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12mm Size Series Encoders

Low-Profile Type

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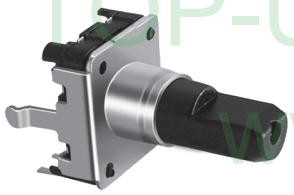
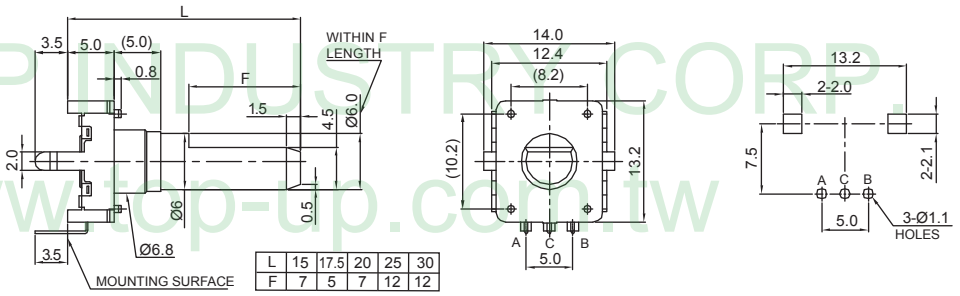
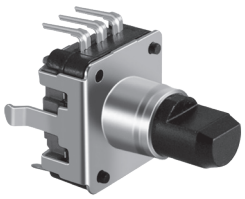
EC12PVF-D

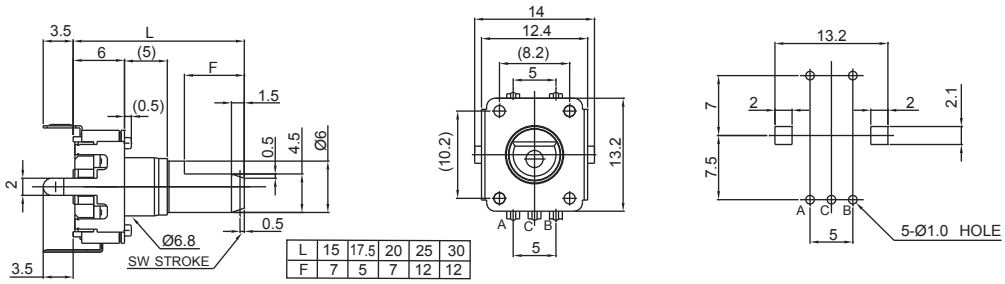




L	15	17.5	20	25	30
F	7	5	7	12	12

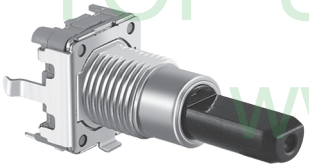
EC12PSDVF-D

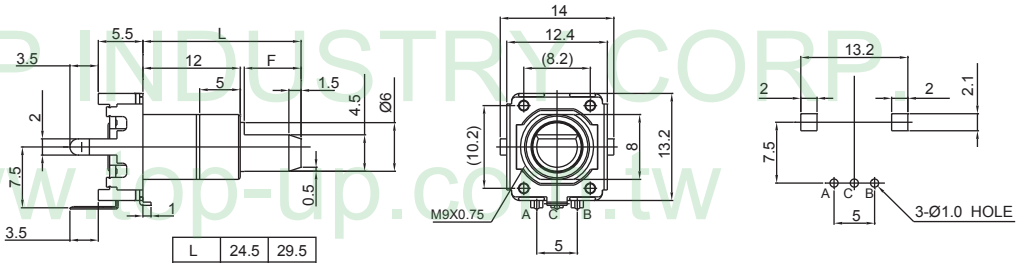




L	15	17.5	20	25	30
F	7	5	7	12	12

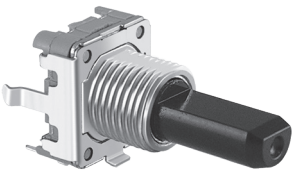
EC12PV12BF-D

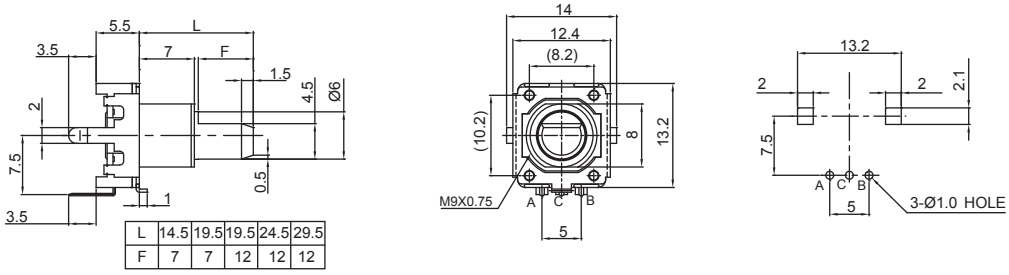




L	24.5	29.5
F	12	12

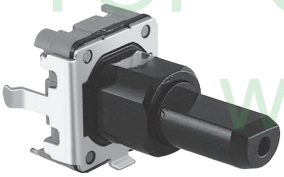
EC12PVBF-D1

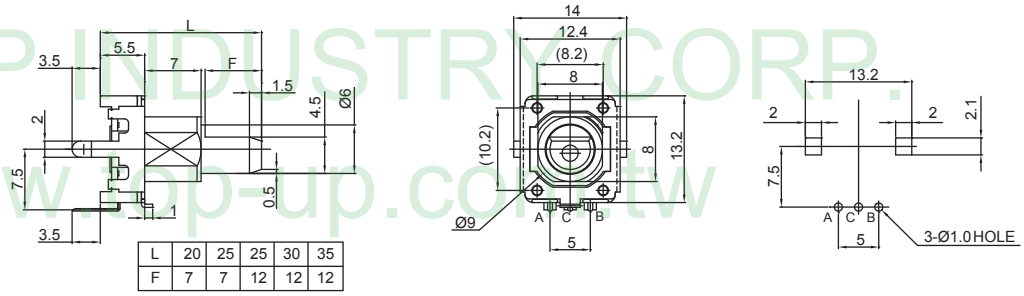




L	14.5	19.5	19.5	24.5	29.5
F	7	7	12	12	12

EC12PVBPF-D





L	20	25	25	30	35
F	7	7	12	12	12

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12mm Size Series Encoders

Low-Profile Type

TOP-UP

Soldering condition

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▲Manual Soldering
- Bit temperature of soldering : 350°C or less.
- Application time of soldering : within 3s.

▲Dip soldering

Preheating :
- Surface temperature of board : 100°C or less.
- Preheating time : within 2 min.

Soldering :
- Solder temperature : 260±5°C
- Immersion time : 5±1 sec.

*Apply the above soldering process for 1 or 2 times.

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www.electronicpartstaiwan.com

8F, NO.189, YUNG AN RD.,
TAOYUAN DIST.,TAOYUAN CITY 330,
TAIWAN, (R.O.C.)

TEL：+886-3-3380787
FAX：+886-3-3380767

sales@top-up.com.tw

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