

Encoders

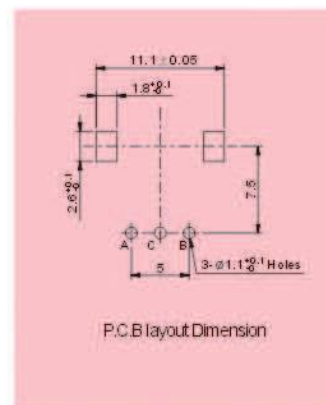
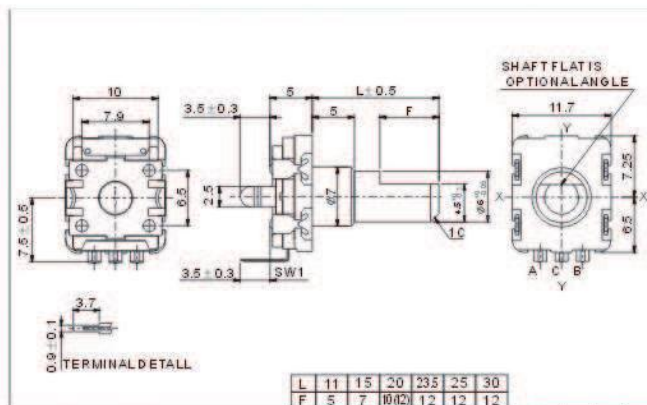
Rotary Type Encoders

EC85 Series

Horizontal Type, Single Unit, P. C. B. Terminal



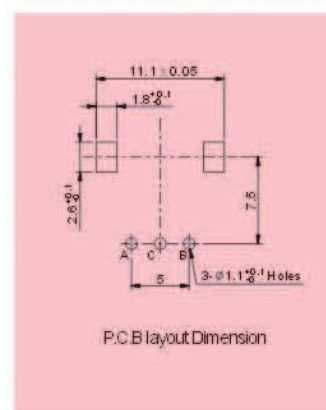
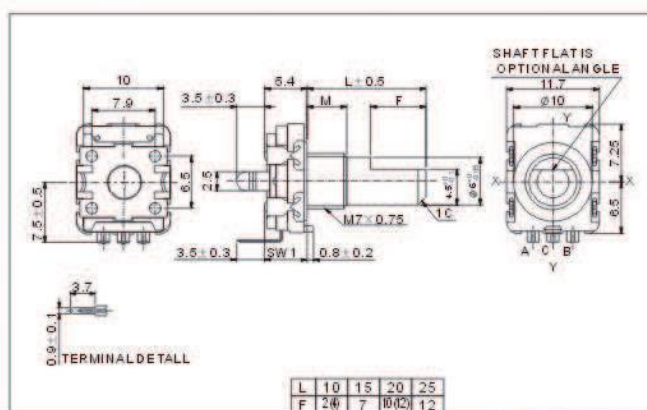
EC85N_B_C_F



Horizontal Type, Single Unit, P. C. B. Terminal



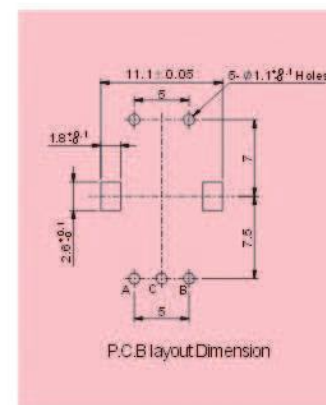
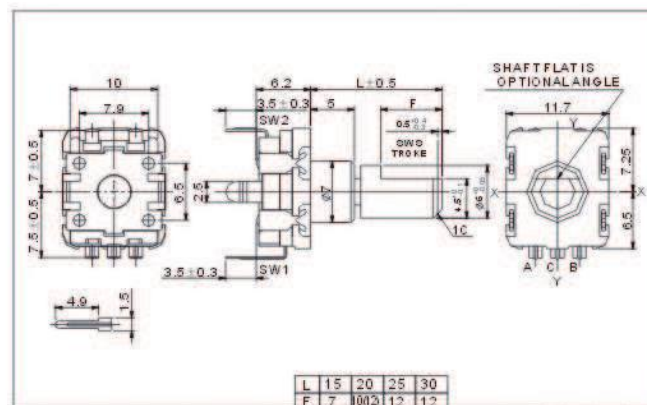
EC85N_M_C_F



Horizontal Type, Single Unit with Switch, P. C. B. Terminal



EC85S_B_C_F



How to order:

EC85 1 2 3 4 5 6 7 8

1 SWITCH FUNCTION:

- S With Switch
- N Without Switch

2 OPERATION DIRECTION:

- blank Horizontal
- V Vertical

3 LENGTH OF BUSHING:

- blank 5 mm
- 7 7 mm

4 WHORL BUSHING:

- M With whorl bushing (M7.0)
- B Without whorl bushing (Ø7.0mm)

5 LENGTH OF SHAFT (L) :

- ... See drawings

6 DETENT:

- C With detent

7 NO. OF PULSE

- 15 15 pulses
- 20 20 pulses

8 TYPE OF SHAFT:

- F See drawings

Encoders

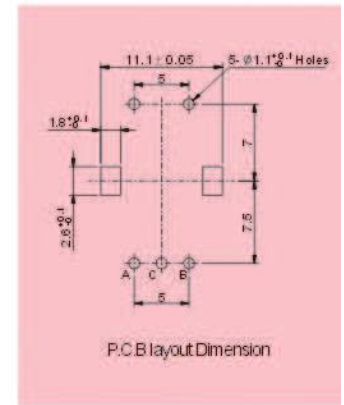
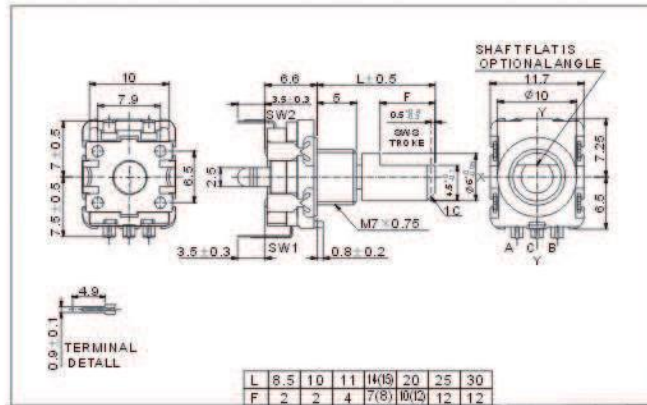
Rotary Type Encoders

EC85 Series

Horizontal Type, Single Unit with Switch, P. C. B. Terminal



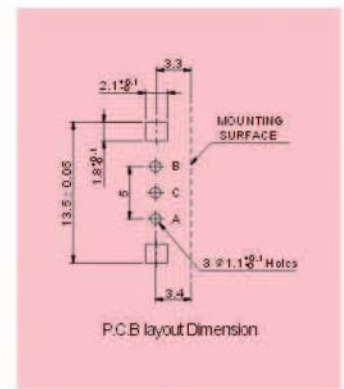
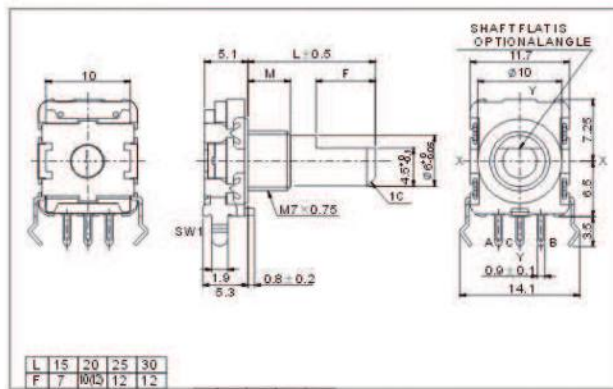
EC85S_M_C_F



Vertical Type, Single Unit, P.C.B. Terminal



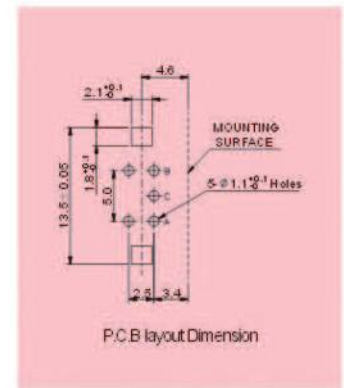
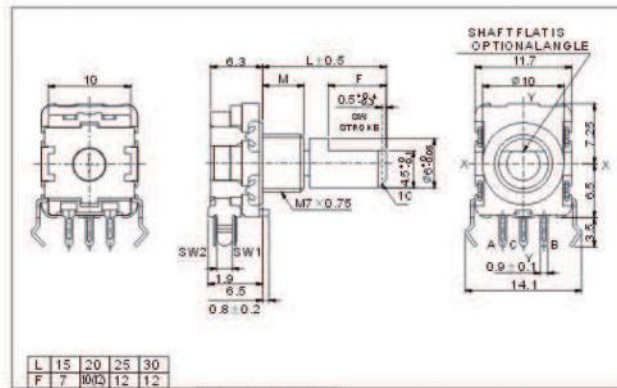
EC85NV_M_C_F



Vertical Type, Single Unit, with Switch P.C.B. Terminal



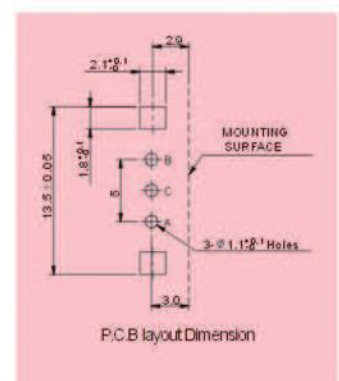
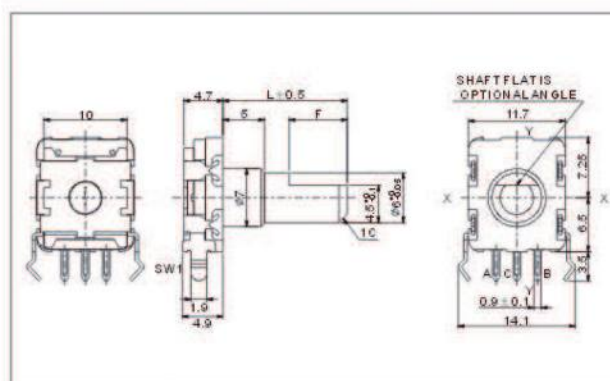
EC85SV_M_C_F



Vertical Type, Single Unit, P.C.B. Terminal



EC85NV_B_C_F



Electrical characteristics

- Rated Power..... DC 5V 10mA(1mA Min)
- Fluttering..... $T1, T3 \leq 3ms$
- Insulation Resistance..... More than $100M\Omega$ at 250V 1mA
- Withstand voltage..... 1 minute at AC 300V 1mA
- Sliding Noise(Bounce)..... $T2 \leq 2ms$
- Phase Difference..... $\Delta T \geq 0.08T$

Mechanical characteristics

- Rotational Torque of Detent..... 50gf.cm ~ 180gf.cm (at 5~35°C)
- Total Rotational Angle..... 360° Continuous
- Number and Position of Detent..... 15 Detents (Angle: $24^\circ \pm 3^\circ$)
- Push-Pull Strength of shaft..... 8.0Kg Min for 10sec.
- Bushing & nut tight strength..... 10.0Kg.cm Min

Durability

- Rotational Life..... 15,000 Cycles Min

Switch characteristics

- Contact resistance..... $100m\Omega$ Max
- Maximum ratings..... DC 5V, 10mA (1mA Min)
- Insulation resistance..... More than $100M\Omega$ at DC 250V, 1mA
- Withstand voltage..... 1 minute at AC 300V, 1mA
- Travel..... $0.5^{+0.4}_{-0.3}$ mm
- Operating Force..... $550 \pm 300gf$

Output Signal Diagram

output wave diagram

