



RoHS  
COMPLIANCE

## Feature

1. Carbon element
2. Switch option
3. Wide assortment of resistance tapers

## F-12 Molded Case Rotary Potentiometer

## Electrical characteristics

- Total Resistance.....100  $\Omega$  ~1M  $\Omega$
- Total Resistance Tolerance.....  $\pm 20\%$
- Resistance Taper.....A,B,C,D
- Max.Operator Voltage.....Linear Taper B: AC150V.Other Tapers:AC100V
- Rated Power.....Linear Taper B: 0.1W Other Tapers:0.05W
- Sliding Noise.....Less than 100mv
- Residual Resistance..... Term.1~2:Less than 20  $\Omega$   
Term.2~3:Less than 20  $\Omega$
- Switch Circuit.....S.P.S.T
- Switch Contact Resistance..... Less than 50  $\Omega$
- Switch Withstand Voltage.....1 Minute at AC 500v
- Switch Rated Power..... 1.0A at AC/DC 12V

## Mechanical characteristics

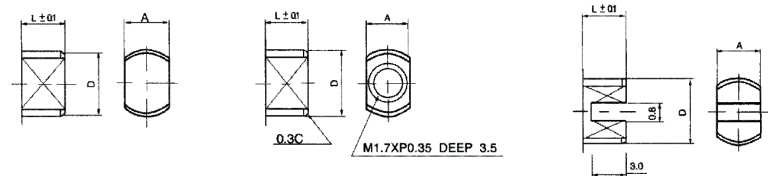
- Total Rotational Angle.....230°  $\pm 10^\circ$
- Rotational Torque.....10gf.cm~100gf.cm
- Switch Torque.....100gf.cm~350gf.cm
- Rotational Stopper Strength.....2.0kgf.cm Min.
- Push-Pull Strength.....Push: 1.0kgf.cm Min
- Switch Rotational Angle.....35°  $\pm 10^\circ$

## Durability

- Rotational Life.....10,000 Cycles

## Shaft illustration

Standard Dimensions of Shaft for  
F-12 Series.  
(Customer designs are welcomed)



No Tap Type

|   |                                   |
|---|-----------------------------------|
| L | 1.0~7.0                           |
| A | 2.2 <sup>+0</sup> <sub>-0.1</sub> |
| D | ∅ 3.5                             |

Tap Type

|   |                                   |
|---|-----------------------------------|
| L | 1.0~7.0                           |
| A | 2.2 <sup>+0</sup> <sub>-0.1</sub> |
| D | ∅ 3.5                             |

Slotted Type

|   |                                   |
|---|-----------------------------------|
| L | 3.0~5.0                           |
| A | 2.2 <sup>+0</sup> <sub>-0.1</sub> |
| D | ∅ 3.5                             |





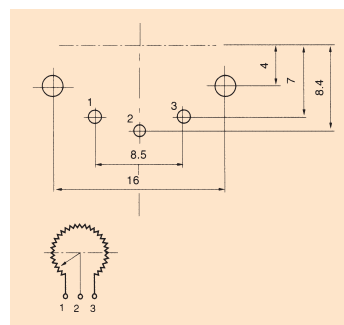
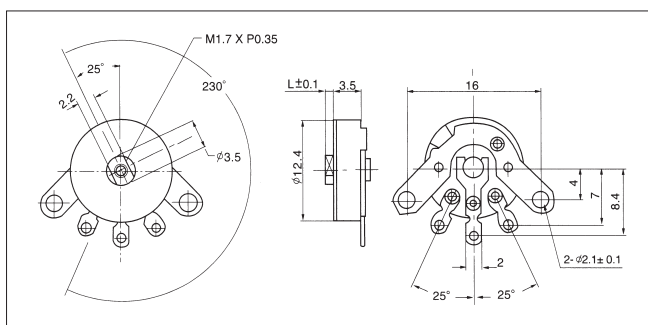
# F-12 Series (ø12.0mm)



## Molded Case Rotary Potentiometer

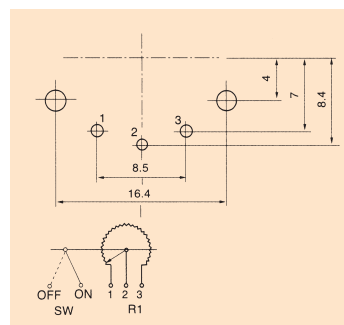
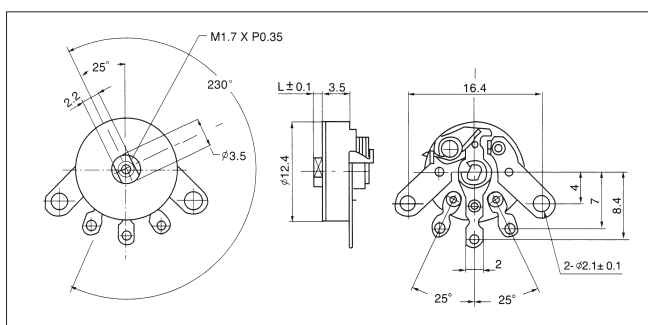
### F-12N

Standard Type, Single Unit



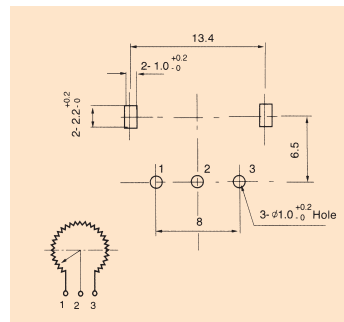
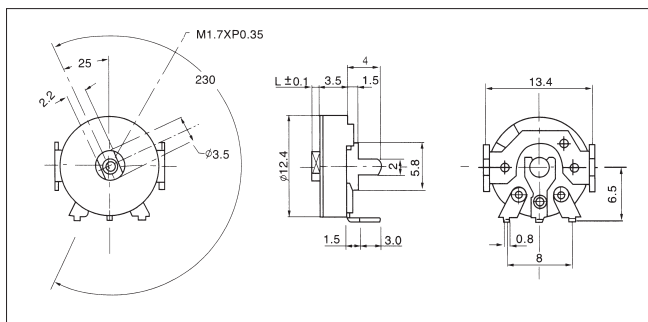
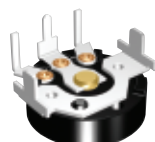
### F-12S

Standard Type with Switch, Single Unit



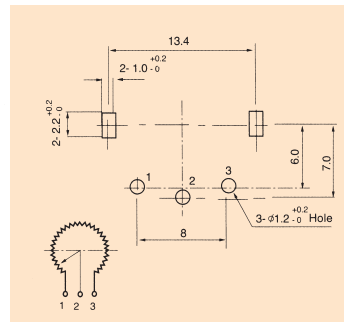
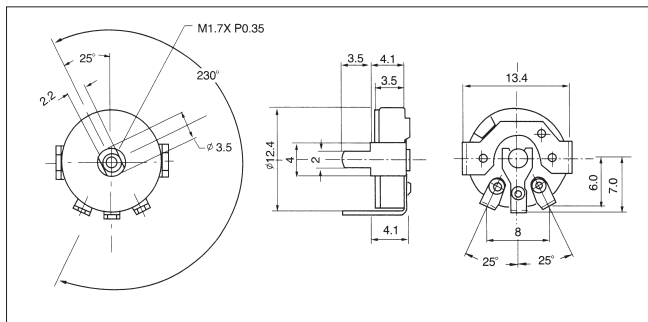
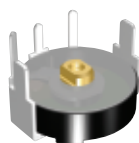
### F-12NPT

Horizontal Type, Single Unit



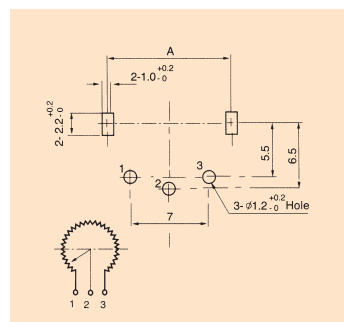
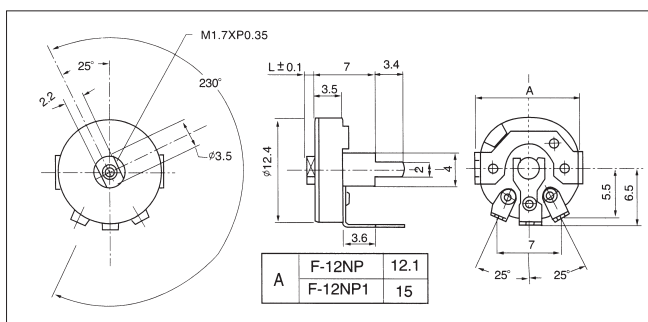
### F-12NPD

Reverse Type, Single Unit



### F-12NP

Horizontal Type, Single Unit





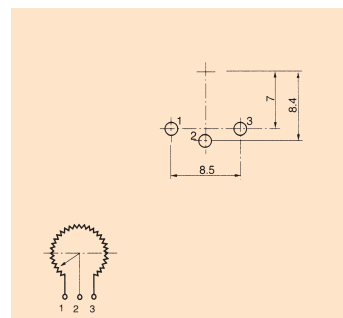
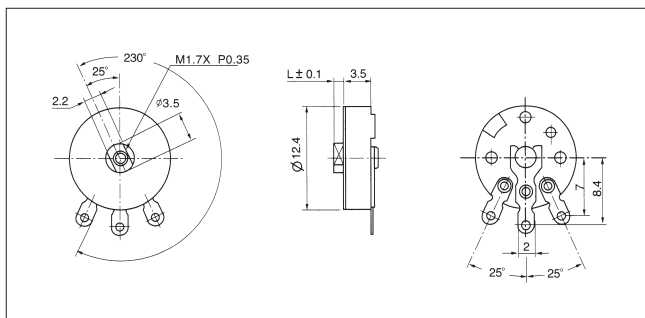
# F-12 Series (ø12.0mm)

## Molded Case Rotary Potentiometer



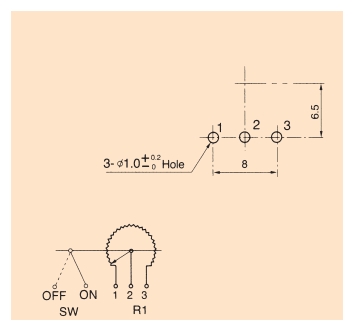
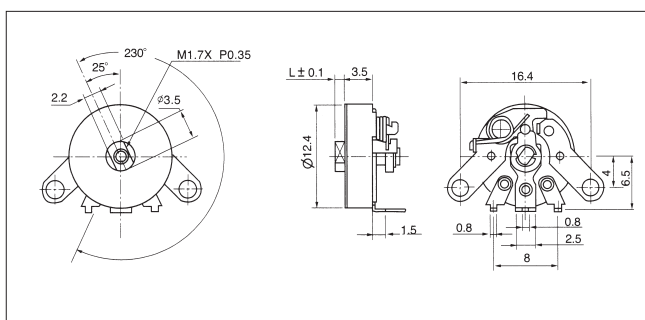
### F-12N1

Horizontal Type ,Single Unit



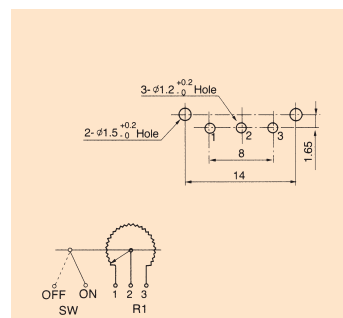
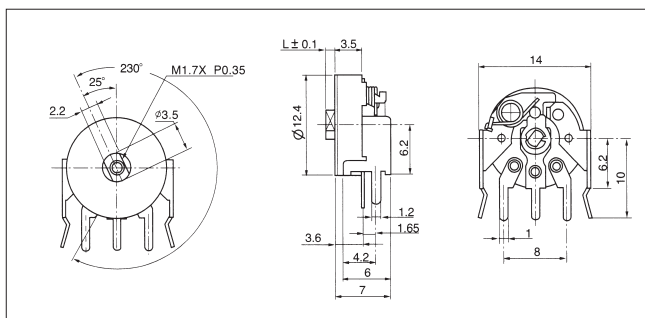
### F-12S7

Horizontal Type with Switch,  
Single Unit



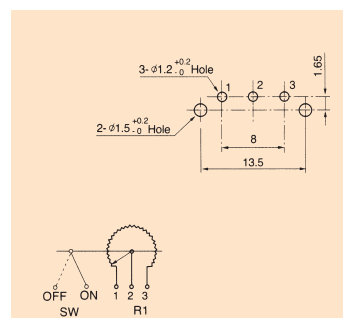
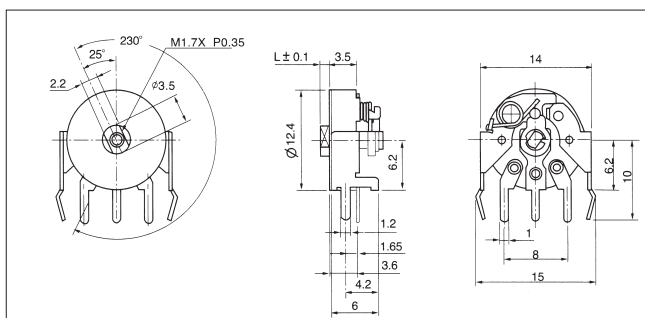
### F-12SH3

Vertical Type with Switch,  
Single Unit



### F-12SH2

Vertical Type with Switch,  
Single Unit







## Part number system of mold case potentiometer

