

EPM/EPG/EPS SERIES

EDGE ACTUATED TYPE

PATENT NO.:2919724553153160

FEATURES

- Edge actuated type (Piano Type) easy setting on closely racked PCB.
- Tactile response is performed directly by larger contact pressure to ensure stable contact.
- All plastics are UL 94V-0 grade fire retardant.
- Bottom epoxy sealed standard to ensure free of flux immersion during wave soldering.
- Contact wiping on make and break.
- Gold plated or silver plated contacts to ensure low contact resistance and long operation life.
- Ideal for data processing, communications, remote controls and burglar alarm system use, where manual programming required.

SPECIFICATIONS

1 . ELECTRICAL

Contact rating	
switching	25 mA, 24 VDC
non-switching	100 mA, 50 VDC
Contact resistance	
initial	50 m Ω Max.
after life test	100 m Ω Max.
Insulation resistance	1000 M Ω Min. at 100 VDC
Dielectric strength	500 VDC Min. for 60 seconds
Capacitance between adjacent switches 5 pF Max.	

2 .MECHANICAL

Temperature rating	
operating	-25°C to + 70°C
storage	-40°C to + 85°C
Operation force	800g Max.
Mechanical life	2000 operations
Humidity	95%RH, 40°C for 96 Hrs.
Vibration	Per MIL-STD-202F, method 204D
Solderability	after flux 230±5°C for 5±0.5 seconds, 95% coverage
Resistance to soldering heat	260±5°C for 5±1 seconds

PART NUMBERING SYSTEM

```

EPM  1  08  1  1  00
|      |      |      |      |
|      |      |      |      | +--- 00: Row Special 7.62mm
|      |      |      |      | +--- Sealing: 1:Non Top Tape Sealed
|      |      |      |      |         2:Top Tape Sealed
|      |      |      |      | +--- Actuator and ON position (For Position 1):
|      |      |      |      |     1:Extended Actuator and Top Side "OFF"
|      |      |      |      |     2:Extended Actuator and Top Side "ON"
|      |      |      |      |     3:Low Profile Actuator and Top Side "OFF"
|      |      |      |      |     4:Low Profile Actuator and Top Side "ON"
|      |      |      |      | +--- Number of Positions: 2,3,4,5,6,7,8,9,10,12
|      |      |      |      | +--- Contact Forms: SPST
|      |      |      |      | +--- Series Name: EPM:Piano type

```

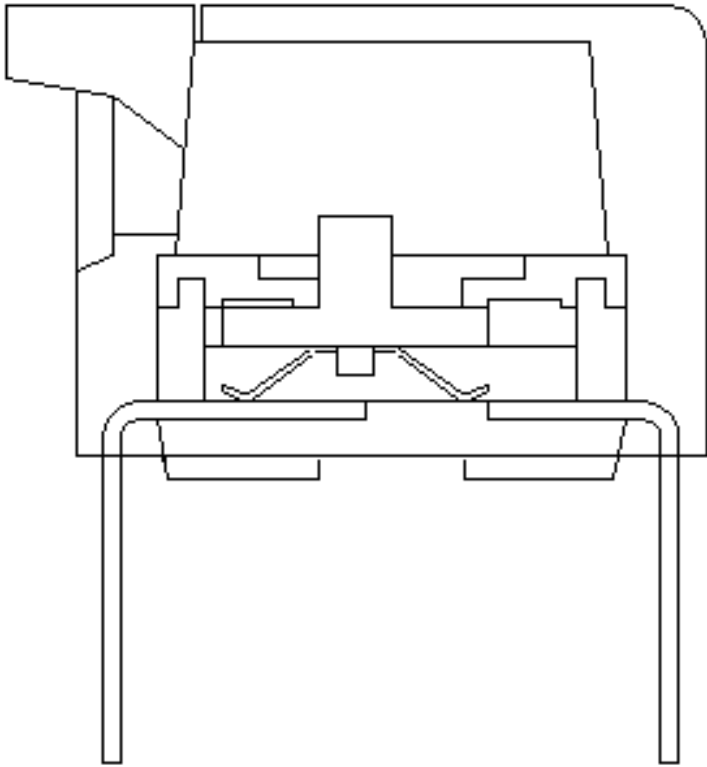
```

EPG  1  08  A
|      |      |      |
|      |      |      | +--- Actuator Sealing (For Position 1):
|      |      |      |     A:Top Side"OFF"
|      |      |      |     B:Top Side"ON"
|      |      |      |     AT:Top Side "OFF" and Tape Sealed
|      |      |      |     BT:Top Side "ON" and Tape Sealed
|      |      |      | +--- Number of Positions: As Dimensions and Circuitry
|      |      |      | +--- Contact Forms: 1.SPST  2.DPST  3.SPDT
|      |      |      |         4.3PST  5.4PST  6.DPDT
|      |      |      | +--- Series Name: EPG:Edge Actuated Type
|      |      |      |         (Gold Plated Contacts)
|      |      |      |     EPS:Edge Actuated Type
|      |      |      |         (Silver Plated Contacts)

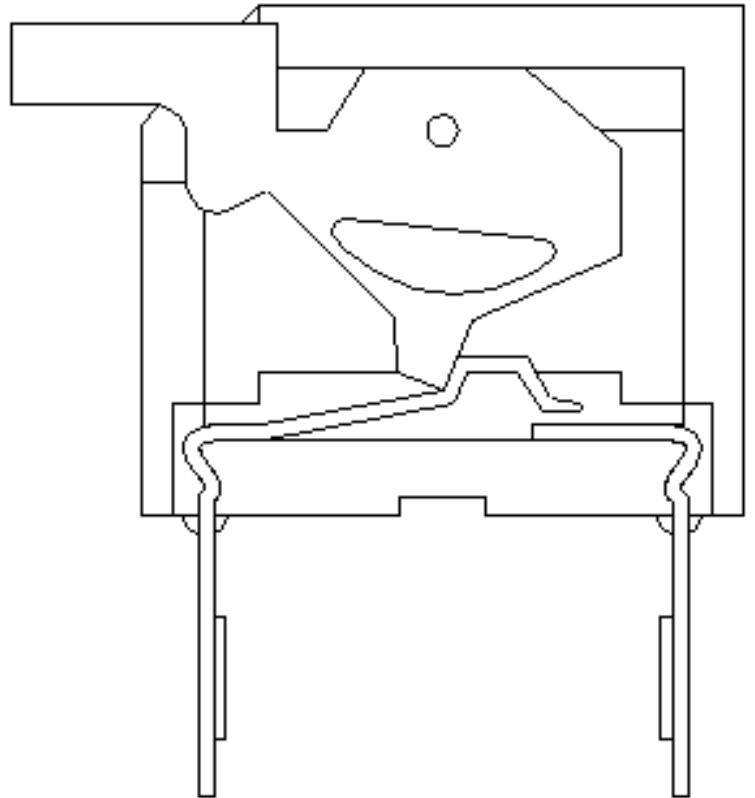
```

CONSTRUCTION

EPM

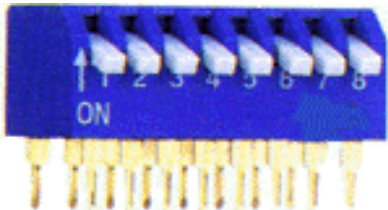


EPG/ EPS



OPTIONS

- 1. Special top or side marking available
- 2. Blue or black body color
- 3. Normal "ON" (top side "ON") available

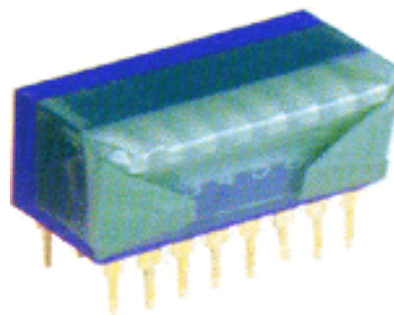
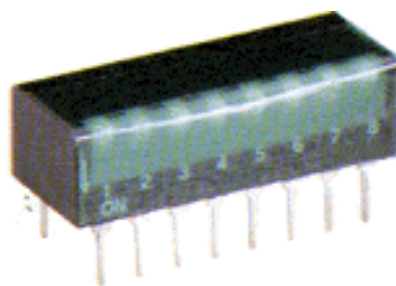


4. Tape sealed

EPMxxx3200 (Low Profile only)

EPMxxx4200 (Low Profile only)

EPGxxxT



DIMENSIONS AND CIRCUITRY (UNIT: mm)

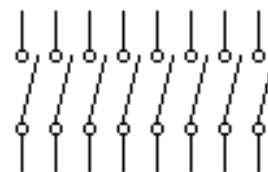
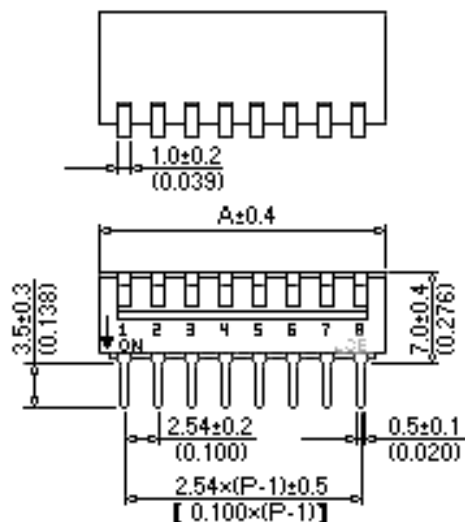
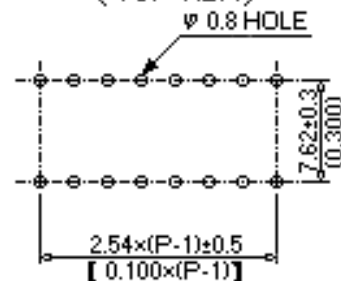
EPM

DIMENSION A

Positions	2	3	4	5	6	7	8	9	10	12
A	6.5 (0.256)	9.0 (0.354)	11.6 (0.457)	14.1 (0.555)	16.7 (0.657)	19.2 (0.756)	21.7 (0.854)	24.2 (0.953)	26.7 (1.050)	31.9 (1.256)

Unit:mm(inch)

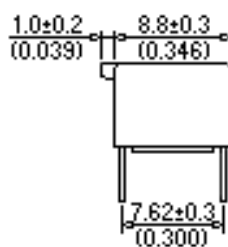
CIRCUIT DIAGRAM

P.C.B. LAYOUT
(TOP VIEW)

(L) TYPE



(E) TYPE



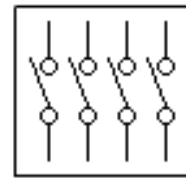
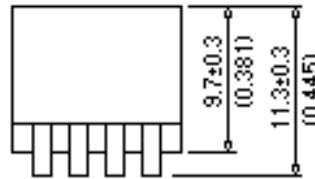
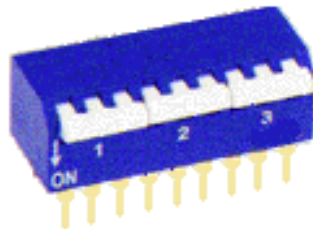
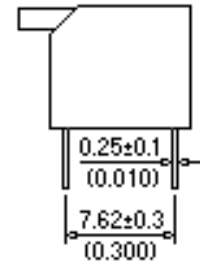
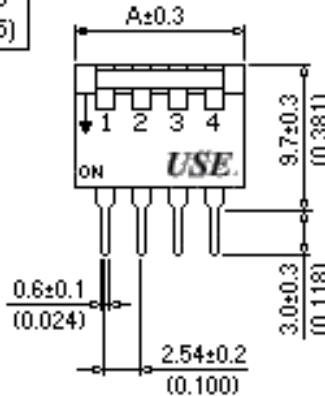
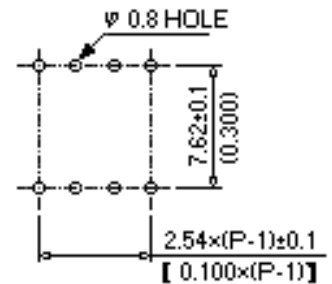
EPG/EPS SPST

DIMENSION A

SPST

Positions	2	3	4	5	6
A	6.7 (0.264)	9.2 (0.362)	11.7 (0.461)	14.2 (0.559)	16.7 (0.657)
Positions	7	8	9	10	12
A	19.2 (0.756)	21.7 (0.854)	24.4 (0.953)	26.7 (1.05)	31.8 (1.25)

Unit:mm(inch)

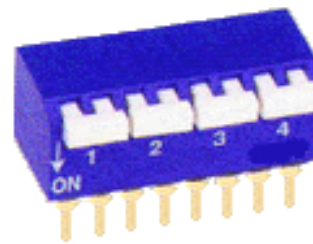
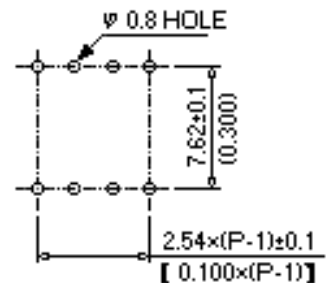
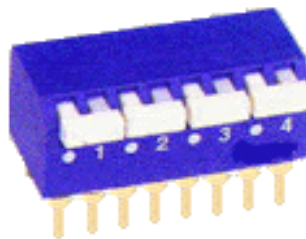
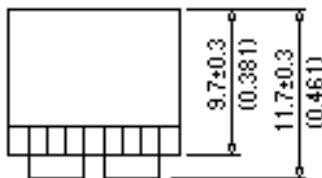
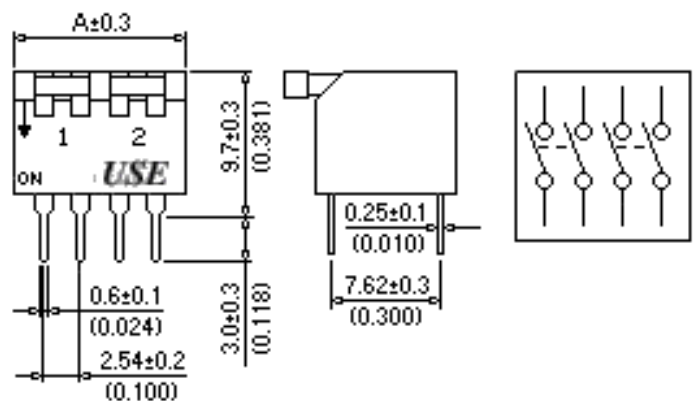
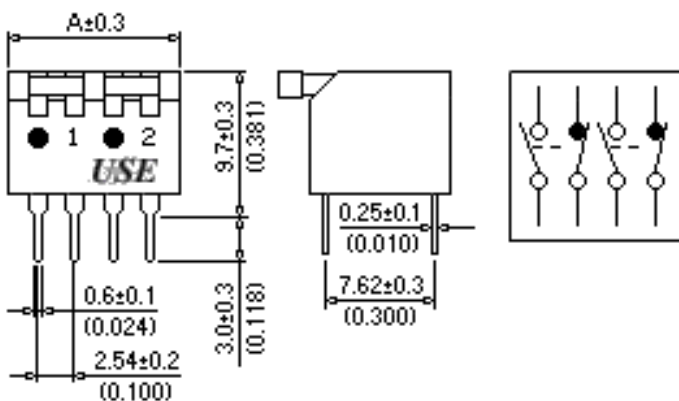
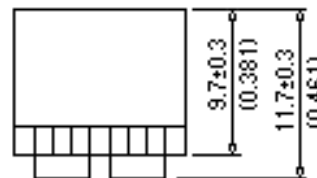
EPG/EPS SPSTP.C.B. LAYOUT
(TOP VIEW)**EPG/EPS DPST.SPDT**

DIMENSION A

DPST.SPDT

Positions	1	2	3	4	5	6
A	6.7 (0.264)	11.7 (0.461)	16.7 (0.657)	21.7 (0.854)	26.7 (1.05)	31.8 (1.25)

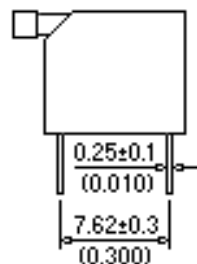
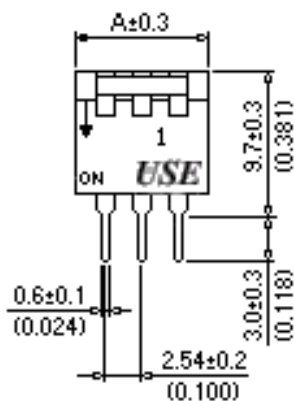
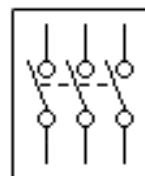
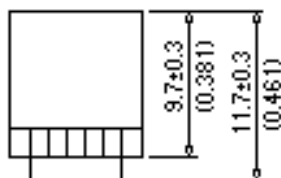
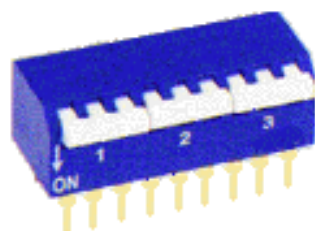
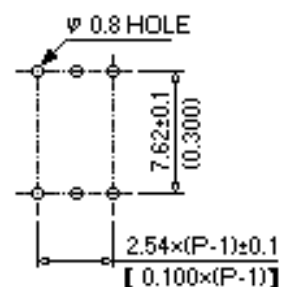
Unit:mm(inch)

P.C.B. LAYOUT
(TOP VIEW)**EPG/EPS SPDT****EPG/EPS DPST**

EPG/EPS 3PST**DIMENSION A 3PST**

Positions	1	2	3	4
A	9.2 (0.362)	16.7 (0.657)	24.2 (0.953)	31.8 (1.25)

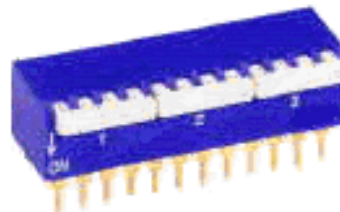
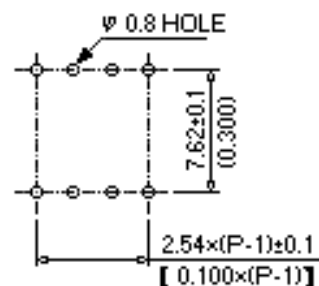
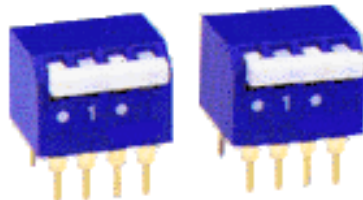
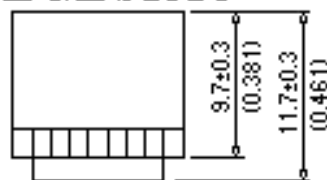
Unit:mm(inch)

EPG/EPS 3PST**P.C.B. LAYOUT
(TOP VIEW)****EPG/EPS 4PST.DPDT**

DIMENSION A 4PST.DPDT

Positions	1	2	3
A	11.7 (0.461)	21.7 (0.854)	31.8 (1.25)

Unit:mm(inch)

P.C.B. LAYOUT
(TOP VIEW)**EPG/EPS DPDT****EPG/EPS 4PST**