



## SLIDE SWITCH FOR P.C.B. ESP-SPDT SERIES



**EXP10XX**



**EXP20XX**



**EXP30XX**



**EXP40XX**

### ■ FEATURES

- The distance of 2 adjacent pins or stacked devices is 2.54 mm pitch
- All plastics are UL 94V-O grade fire retardant
- Low contact resistance and long mechanical life, suitable for signal switching and communication equipments.

### ■ APPLICATIONS

- Measuring point changeover switches
- Service switch
- Controls for consumer devices

### ■ SPECIFICATIONS

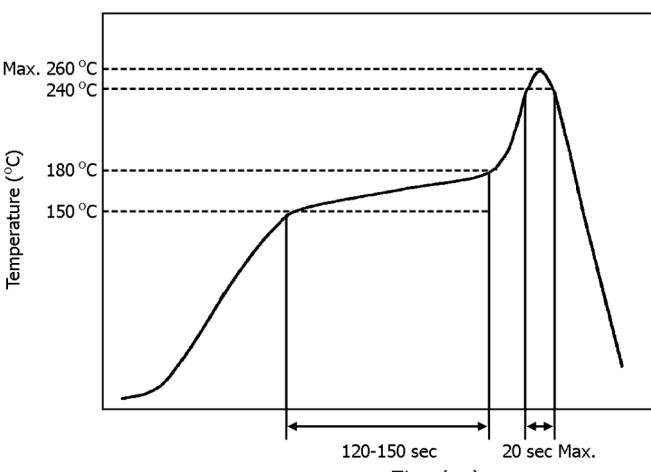
#### ◆ SPDT TYPE (ESP10,20,30,40 Series)

##### 1. ELECTRICAL CHARACTERISTICS

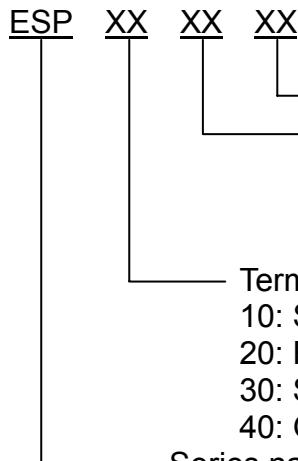
● Contact rating	0.2A, 24VDC; 0.5A, 12VDC
● Minimum contact rating	1mA, 10mV
● Contact resistance	30mΩ Max.
● Dielectric strength	2mA, 500VDC for 60sec.
● Capacitance	1.5pF Max.
● Insulation resistance	10000MΩ Min. under 500VDC
● Mechanical life	10000 operations



## 2. GENERAL CHARACTERISTICS

● Temperature range	operating	-25°C ~ +70°C
	storage	-40°C ~ +85°C
● Solder temperature		230°C for 3 sec.
● Vibration		normal operation at 10Hz to 60Hz, 1.5mm movement
● Salt spray		35°C, 5% for 24hours
● Reflow soldering heat for SMT type (reference)		 <p>Max. 260 °C 240 °C 180 °C 150 °C Temperature (°C) 120-150 sec      20 sec Max. Time (sec)</p>

## ■ PART NUMBERING SYSTEM



XX: Special product number

Material type:

10: Standard version (Blue)

20: Tropical version (Black)

KD: Tape & Reel Package (For ESP40 series only)

Terminal:

10: Straight type

20: Right angle type

30: Stand V-type surface mount (Tropical version only)

40: Gull wing type surface mount (Tropical version only)

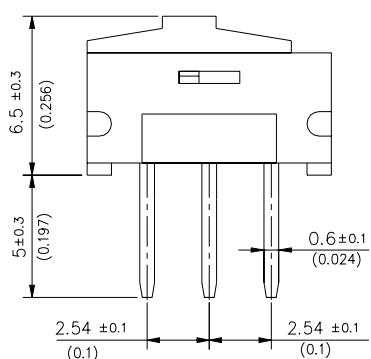
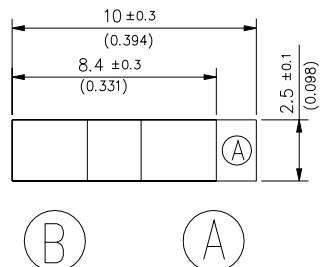
Series name: ESP: SLIDE SWITCH FOR P.C.B.



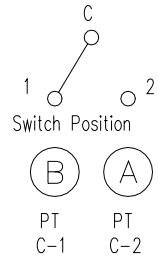
## ■ DIMENSIONS AND CIRCUITRY

DIMENSIONS Unit: mm(inch)

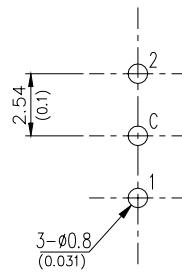
P/N.: ESP10XX



CIRCUIT DIAGRAM



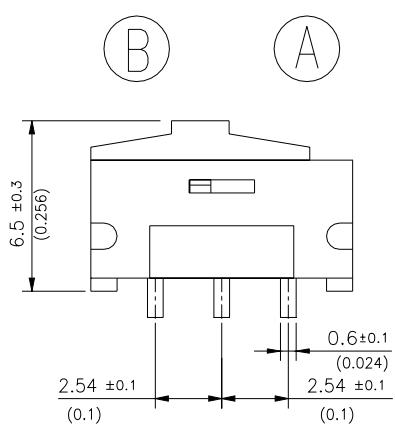
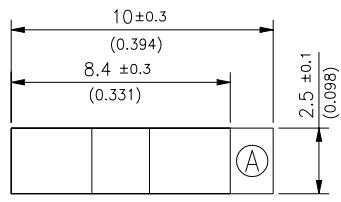
P.C.B. LAY OUT



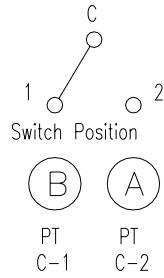
DIMENSIONS

Unit: mm(inch)

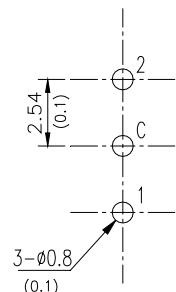
P/N.: ESP20XX



CIRCUIT DIAGRAM



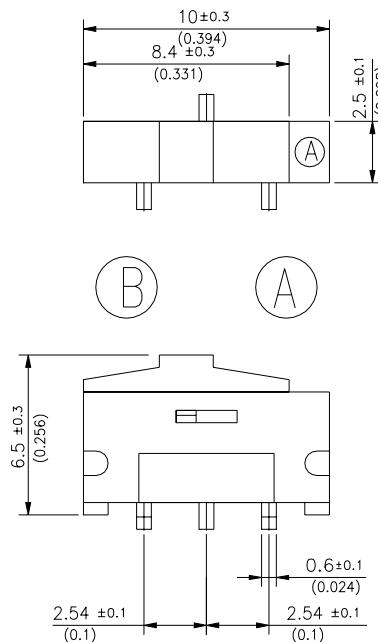
P.C.B. LAY OUT



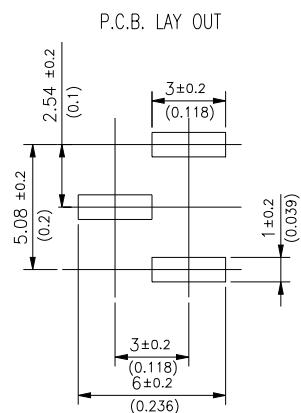
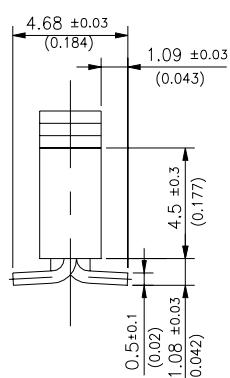
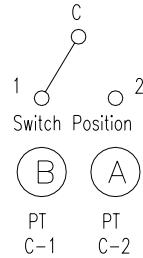


DIMENSIONS Unit: mm(inch)

P/N.: ESP30XX

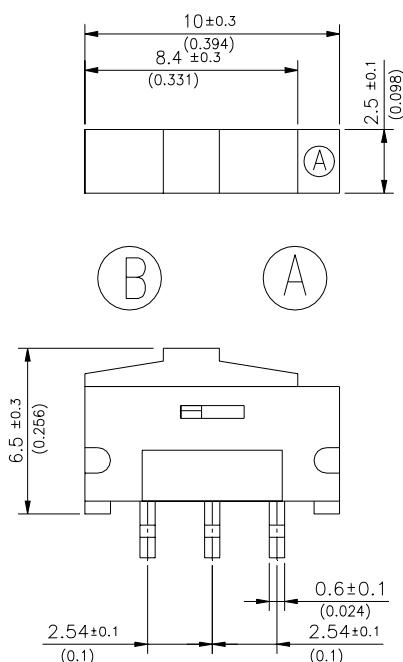


CIRCUIT DIAGRAM



DIMESIONS Unit: mm(inch)

P/N.: ESP40XX



CIRCUIT DIAGRAM

