EN: This Datasheet/Document is presented by the manufacturer.

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



ESP10XX



ESP20XX



ESP30XX



ESP40XX

■ 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

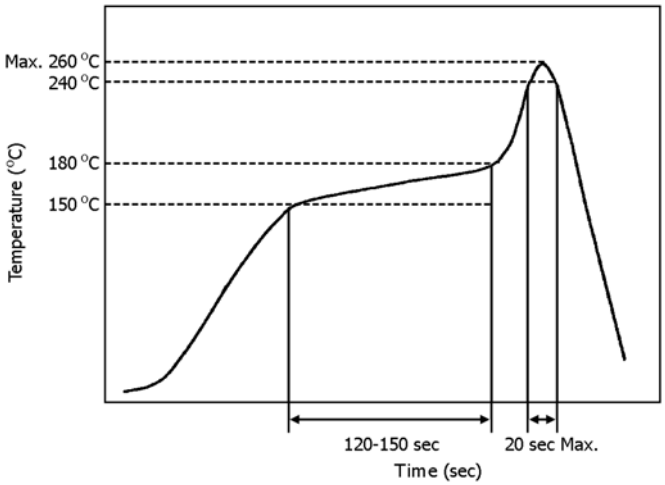
■ SPECIFICATIONS

◆ 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	Initial: 50mΩ Max.
	After life test: 100mΩ Max.
● Dielectric strength	2mA, 500VDC for 60sec.
● Capacitance	1.5pF Max.
● Insulation resistance	10000MΩ Min. under 500VDC
● Mechanical life	5000 operations

2. GENERAL CHARACTERISTICS

● Temperature range	operating	-25℃~ +70℃
	storage	-40℃~ +85℃
● Solder temperature		230℃ for 3 sec.
● Vibration		normal operation at 10Hz to 60Hz, 1.5mm movement
● Salt spray		35℃, 5% for 24hours
● Reflow soldering heat for SMT type (reference)		

■ PART NUMBERING SYSTEM

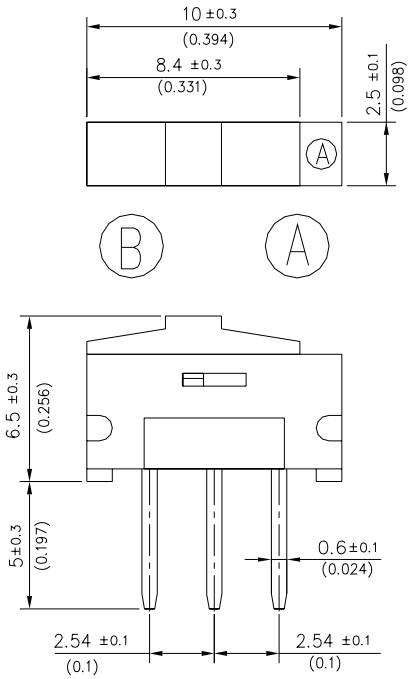
ESP XX XX XX

- 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.

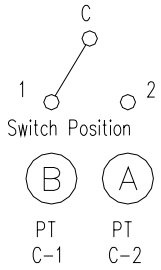
■ DIMENSIONS AND CIRCUITRY

DIMENSIONS Unit: mm(inch)

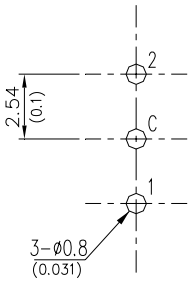
P/N.: ESP10XX



CIRCUIT DIAGRAM

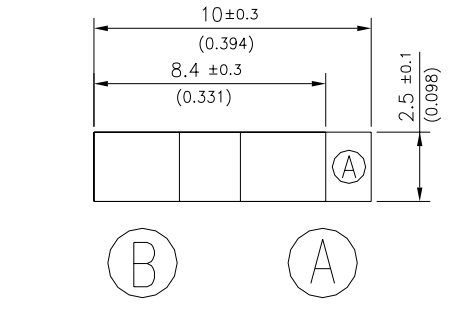


P.C.B. LAY OUT

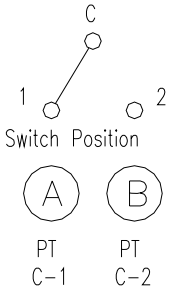


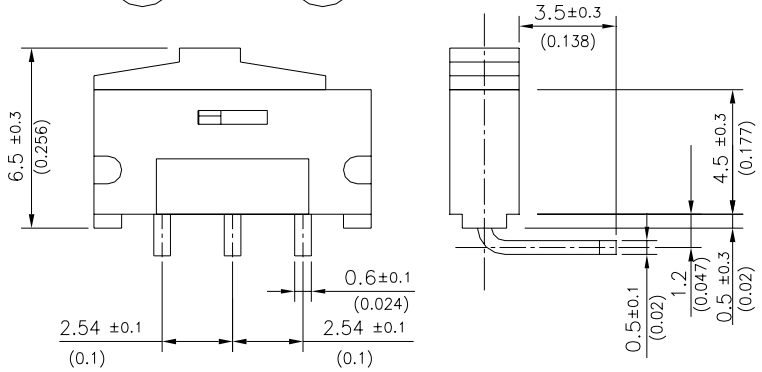
DIMENSIONS Unit: mm(inch)

P/N.: ESP20XX

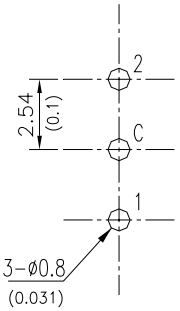


CIRCUIT DIAGRAM



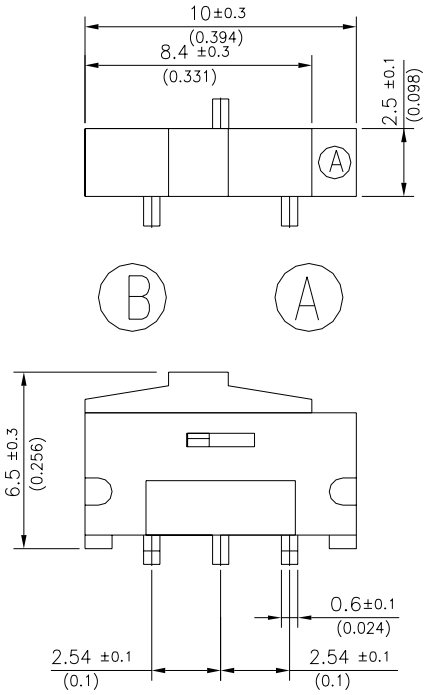


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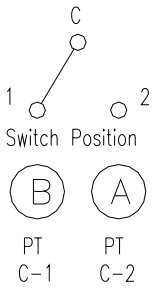


DIMENSIONS Unit: mm(inch)

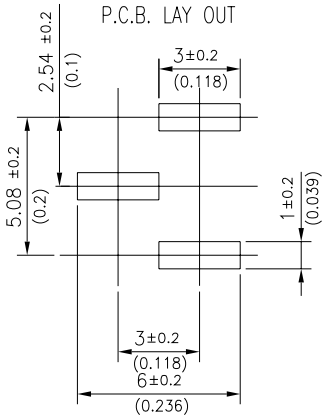
P/N.: ESP30XX



CIRCUIT DIAGRAM

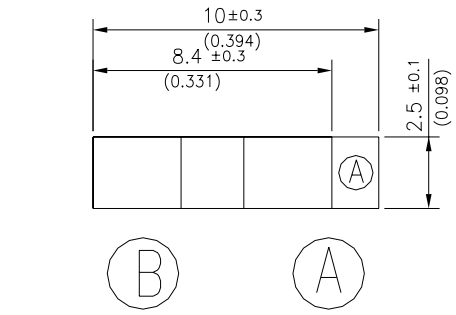


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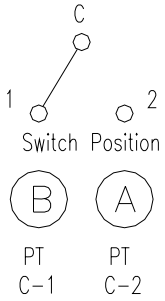


DIMESIONS Unit: mm(inch)

P/N.: ESP40XX



CIRCUIT DIAGRAM



P.C.B. LAY OUT

