

0.1" Pitch SPDT PCB Changeover Switch

ESP 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)

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

GENERAL CHARACTERISTICS

Operating temperature range	-40℃ ~ +85℃
Solder temperature	230℃ for 3 sec. (Standard version) 250℃ for 3 sec. (Tropical version)
Reflow soldering heat for SMT type (reference only)	210℃ for 20 seconds or less, peak temperature 230℃ or less
Vibration	normal operation at 10Hz to 60Hz, 1.5mm movement
Salt spray	35℃, 5% for 24 hours

PART NUMBERING SYSTEM

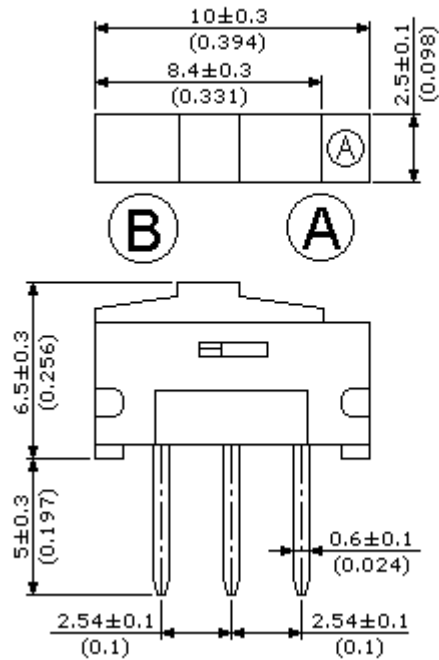
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ESP  XX  XX  XX  X
|    |    |    |    |
|    |    |    |    +--- Blank:Standard
|    |    |    |    +--- XX:Special product number
|    |    |    |    +--- Material type:
|    |    |    |    10:Standard version(Blue)
|    |    |    |    20:Tropical 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.
  
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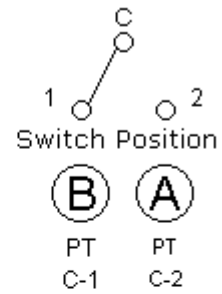
DIMENSIONS

● Straight terminals

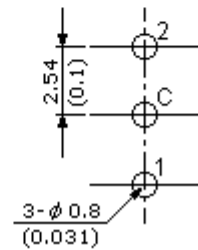
DIMENSIONS UNIT: mm(inch)
P/N:ESP10XX



CIRCUIT DIAGRAM

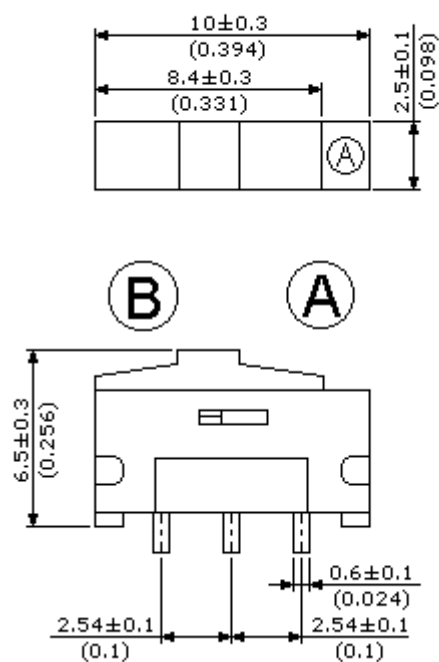


P.C.B. LAYOUT

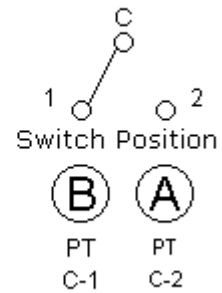


● Right angle terminals

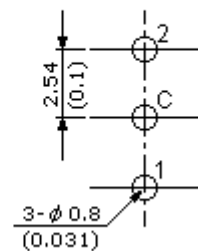
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P/N:ESP20XX



CIRCUIT DIAGRAM

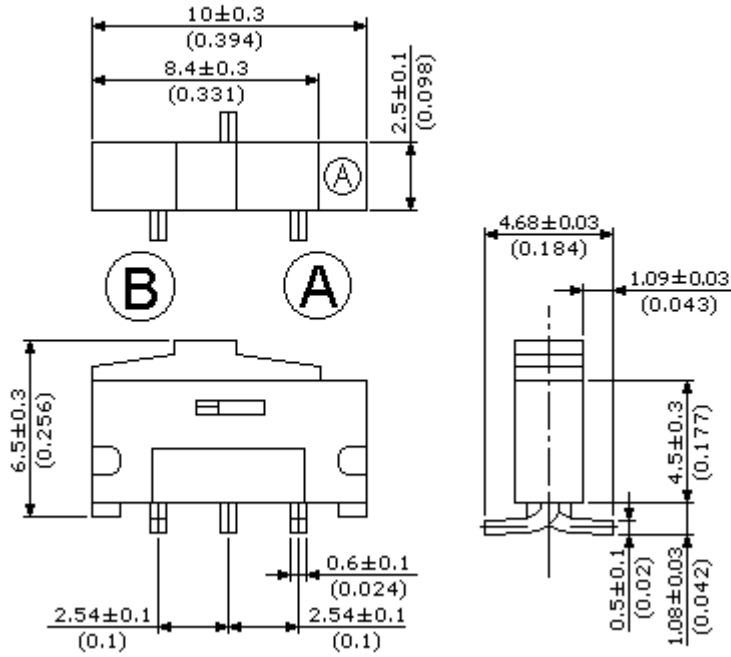


P.C.B. LAYOUT

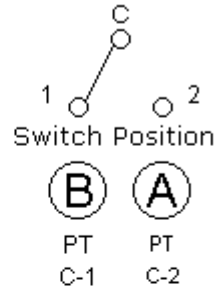


● **Stand V-type surface mount**

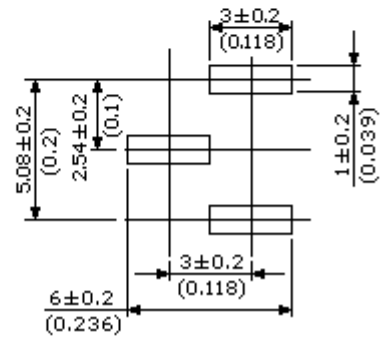
DIMENSIONS UNIT: mm(inch)
P/N:ESP30XX



CIRCUIT DIAGRAM

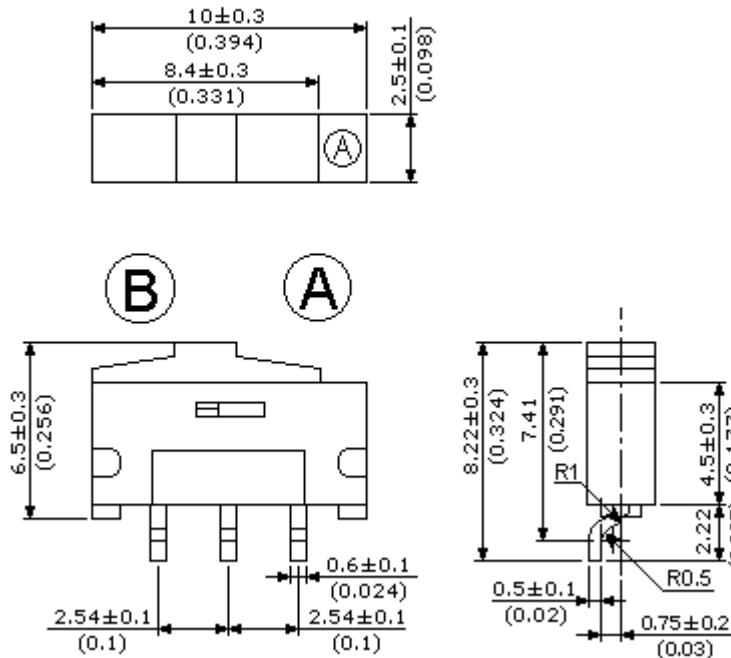


P.C.B. LAYOUT

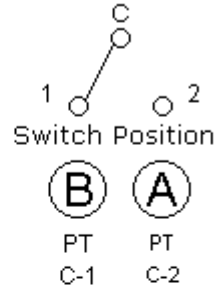


● **Gull wing type surface mount**

DIMENSIONS UNIT: mm(inch)
P/N:ESP40XX



CIRCUIT DIAGRAM



P.C.B. LAYOUT

