

SLIDE SWITCH

ESP-4PDT Series

SLIDE SWITCH FOR P.C.B.
AUTO INSERTING AND SMT TYPE



AUTO INSERTING TYPE



SURFACE MOUNTING TYPE

FEATURES

- Molded 0.3" integrated circuit packing outline allowing automatic insertion
- Smaller size makes better heat convection during PC board reflow/wave soldering
- Top tape sealed to withstand reflow/wave soldering, board washing
- Housing materials are UL 94V-0 grade fire retardant plastics
- All plastics are UL 94V-0 grade fire retardant
- Gold plated contacts to ensure low contact resistance and Tin plated terminals to prevent contamination during soldering
- RoHS Compliant

APPLICATIONS

- Ideal as function and band selector switch in radio-cassette recorder, office equipments, TV sets, VCR, etc

SPECIFICATIONS

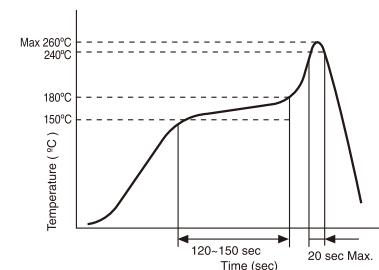
1. ELECTRICAL

| | |
|---------------------------------------|-----------------------------|
| Contact rating | |
| switching | 25 mA, 24 VDC |
| non-switching | 100 mA, 50 VDC |
| Contact resistance | |
| initial | 100 mΩ Max. |
| after life test | 100 mΩ Max. |
| Insulation Resistance | 1,000 MΩ Min. at 100 VDC |
| Dielectric Strength | 500 VDC Min. for 60 seconds |
| Capacitance between adjacent switches | 5pF Max |

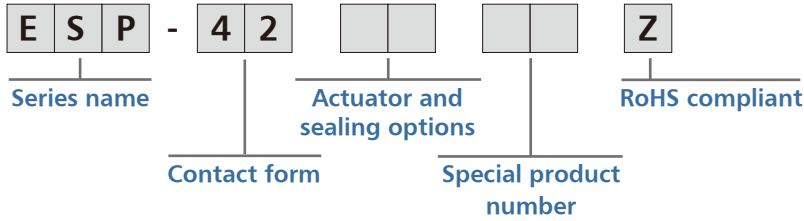
2. MECHANICAL and ENVIRONMENTAL

| | |
|---|-----------------------------------|
| Temperature rating | |
| operating | -40°C to +85°C |
| storage | -40°C to +85°C |
| Operation force | 100g Min. & 1,000g Max. |
| Mechanical Life | 1,000 operations |
| Humidity | 95% RH, 40°C for 96 Hrs. |
| Vibration | 10 to 55Hz for 6 Hrs. |
| Solderability | After flux 245±5°C for 5±1 second |
| Resistance to Soldering Heat (for through hole type) | |
| Solder bath | 260±5°C for 5±1 second |

Reflow soldering heat for SMT Type
(reference only)



PART NUMBERING SYSTEM



| Series name | |
|-------------|-------------------------|
| E S P | Slide switch for P.C.B. |

| Contact form | |
|--------------|------|
| 4 2 | 4PDT |

| Actuator, sealing and packaging options | |
|---|--|
| E | Extended Actuator and Row Spacing 7.62mm (Standard) |
| L | Low Profile Actuator and Row Spacing 8.50mm (Standard) |
| E C | "E" type in Tape & Reel Package |
| L C | "L" type in Tape & Reel Package |
| L T | Low Profile Actuator and Top Tape Sealed |
| L D | "LT" type in Tape & Reel Package |

| On position | |
|-------------|---|
| 0 1 | Low Profile Actuator and Rows Spacing 7.62mm Extended Actuator and Rows Spacing 8.50mm |
| 0 2 | Surface mounting type |

DIMENSIONS AND CIRCUITRY

Unit mm (inch)

| ESP-42LZ / ESP-42EZ | | Auto Inserting Type | |
|-------------------------|--|-----------------------|------------------------------------|
| | | | CIRCUIT DIAGRAM |
| | | | P.C.B LAYOUT (TOP VIEW) |
| ESP-42L02Z / ESP-42E02Z | | Surface Mounting Type | |
| | | | CIRCUIT DIAGRAM |
| | | | P.C.B LAYOUT (TOP VIEW) |

OPTIONS

- Three kinds of pitch (7.62 mm and 8.50 mm) and SMT (9.6mm) available