



## AUTO INSERTING AND SMT TYPE ESP-4PDT SERIES



### ■ 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
- Gold plated contact to ensure low contact resistance and tin plated terminal to prevent contamination during soldering
- RoHS Compliant

### ■ APPLICATIONS

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

### ■ OPTIONS

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

### ■ SPECIFICATIONS

#### 1. ELECTRICAL

● Contact Rating	Switching: 25mA, 24VDC
	Non-Switching: 100mA, 50VDC
● Contact Resistance	Initial: 50mΩ Max.
	After life test: 100mΩ Max.
● Insulation Resistance	1000MΩ Min. at 100VDC
● Dielectric Strength	500VDC Min. for 60 seconds
● Capacitance between adjacent switched	5pF Max.

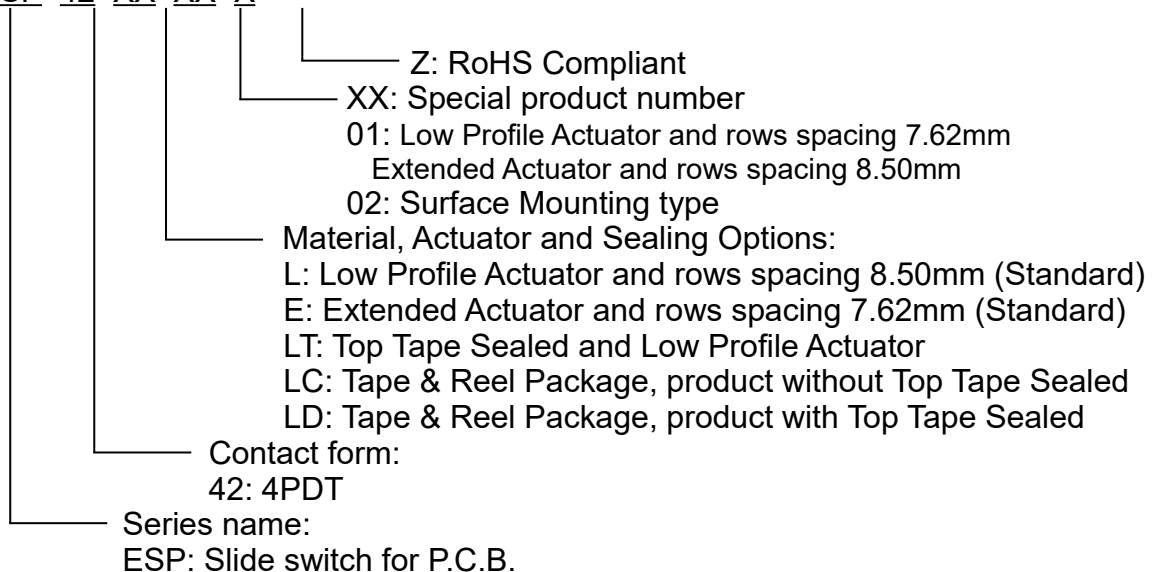


## 2 MECHANICAL AND ENVIRONMENTAL

● Temperature Rating	Operating: -25°C to +70°C Storage: -40°C to +85°C
● Operation force	100g Min. & 1000g Max.
● Mechanical Life	1000 Operations
● Humidity	95%RH, 40°C for 96hours
● Vibration	10Hz-55Hz-10Hz for 6Hrs.
● Solderability	After flux 230±5°C for 5±0.5seconds, 95% coverage
● Resistance to soldering heat (for through hole type)	260±5°C for 5±1sec
● Reflow soldering heat for SMT type (reference only)	<p>Max. 260 °C 240 °C 180 °C 150 °C</p> <p>Temperature (°C)</p> <p>120-150 sec 20 sec Max. Time (sec)</p>

## ■ PART NUMBERING SYSTEM

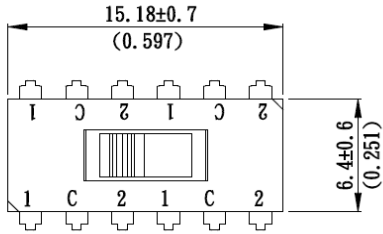
ESP 42 XX XX X



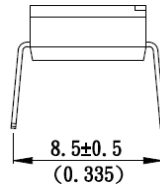


**■ DIMENSIONS AND CIRCUITRY UNIT:mm(inch)**

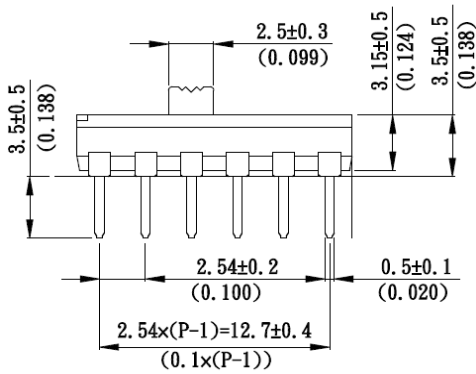
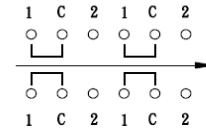
**ESP 4PDT SERIES**



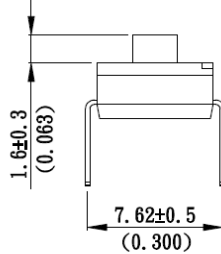
LOW PROFILE ACTUATOR



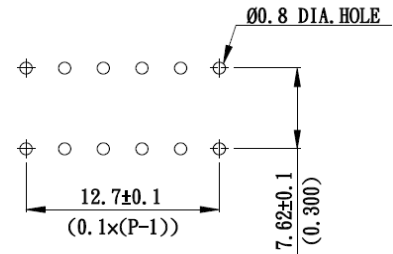
CIRCUIT DIAGRAM



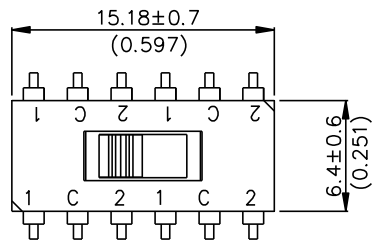
EXTENDED ACTUATOR



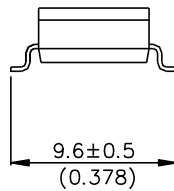
P. C. B. LAYOUT (TOP VIEW)



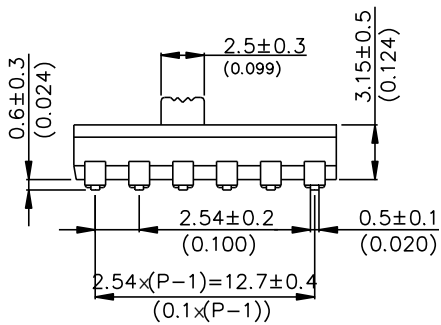
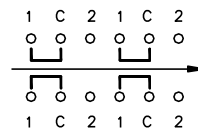
**ESP 4PDT SMT SERIES**



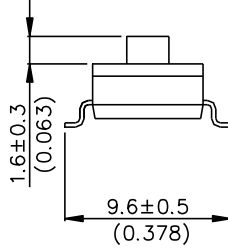
LOW PROFILE ACTUATOR



CIRCUIT DIAGRAM



EXTENDED ACTUATOR



P. C. B. LAYOUT (TOP VIEW)

