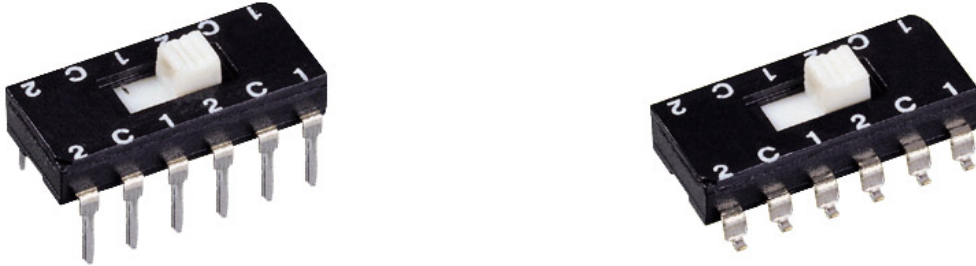


**AUTO INSERTING AND SMT TYPE  
ESP-4PDT SERIES**



**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: 200mΩ Max.
● Insulation Resistance	1000MΩ Min. at 100VDC
● Dielectric Strength	500VDC Min. for 60 seconds
● Capacitance between adjacent switched 5pF Max.	



# Switch

## 2 MECHANICAL AND ENVIRONMENTAL

● Temperature Rating	Operating: -40°C to +85°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 245±5°C for 5±1seconds
● Resistance to soldering heat (for through hole type)	Solder bath 260±5°C for 5±1seconds
● Reflow soldering heat for SMT type (reference only)	

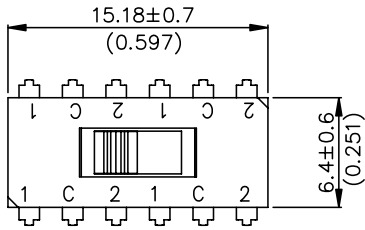
## ■ PART NUMBERING SYSTEM

ESP 42 XX XX X

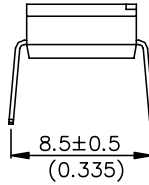
- Z: RoHS Compliant
- XX: Special product number
  - 01: Low Profile Actuator and rows spacing 7.62mm  
Extended Actuator and rows spacing 8.50mm
  - 02: Surface Mounting type
- Material, Actuator and Sealing Options:
  - L: Low Profile Actuator and rows spacing 8.50mm (Standard)
  - E: Extended Actuator and rows spacing 7.62mm (Standard)
  - LT: Top Tape Sealed and Low Profile Actuator
  - LC: Tape & Reel Package, product without Top Tape Sealed
  - LD: Tape & Reel Package, product with Top Tape Sealed
- Contact form:
  - 42: 4PDT
- Series name:
  - ESP: Slide switch for P.C.B.

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

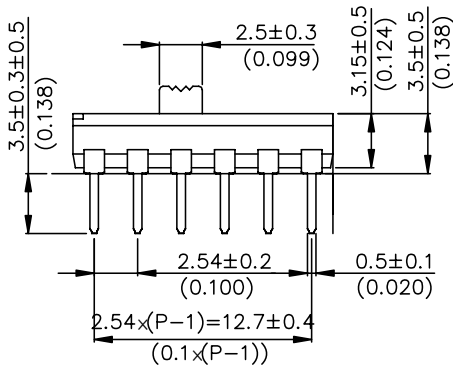
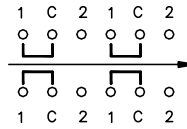
### ESP 4PDT SERIES



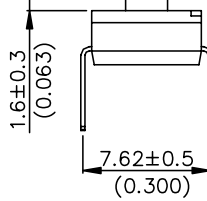
LOW PROFILE ACTUATOR



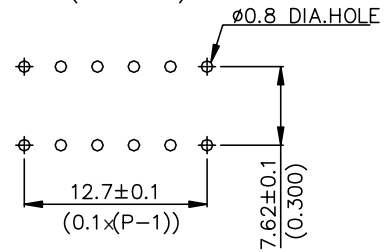
CIRCUIT DIAGRAM



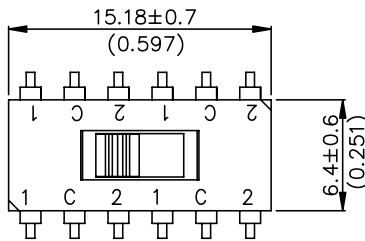
EXTENDED ACTUATOR



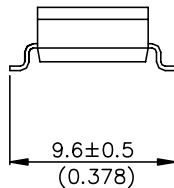
P.C.B. LAYOUT (TOP VIEW)



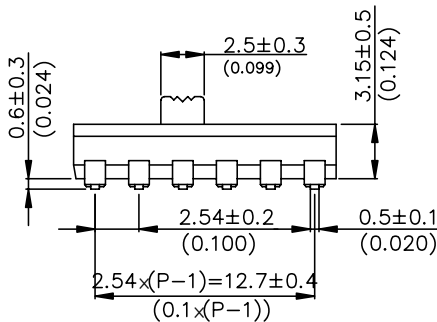
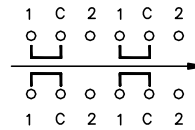
### ESP 4PDT SMT SERIES



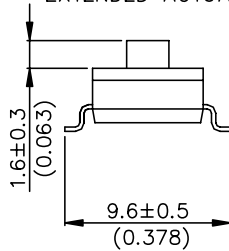
LOW PROFILE ACTUATOR



CIRCUIT DIAGRAM



EXTENDED ACTUATOR



P.C.B. LAYOUT (TOP VIEW)

