

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)	

■ 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

Blank: Standard

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: Low Profile Actuator and Tape & Reel Package,
product without Top Tape Sealed

LD: Low Profile Actuator and Tape & Reel Package,
product with Top Tape Sealed

EC: Extended Actuator and Tape & Reel Package,
product without Top Tape Sealed

Contact form:

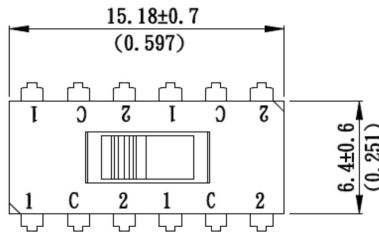
42: 4PDT

Series name:

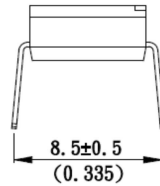
ESP: Slide switch for P.C.B.

■ DIMENSIONS AND CIRCUITRY UNIT:mm(inch)

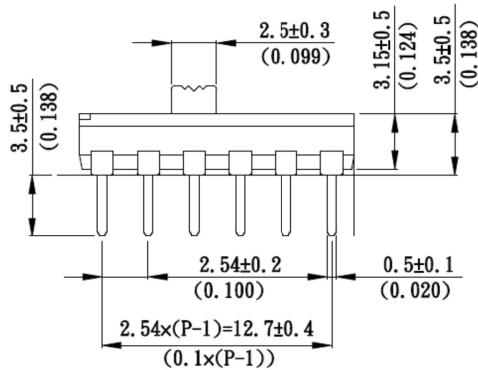
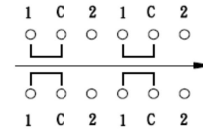
ESP 4PDT SERIES



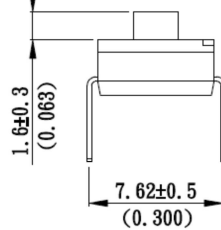
LOW PROFILE ACTUATOR



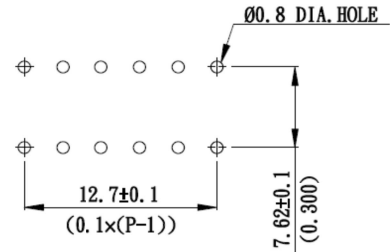
CIRCUIT DIAGRAM



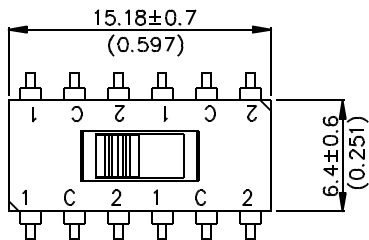
EXTENDED ACTUATOR



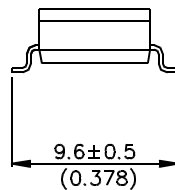
P. C. B. LAYOUT (TOP VIEW)



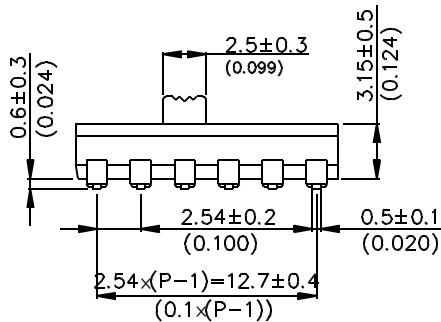
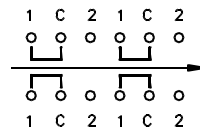
ESP 4PDT SMT SERIES



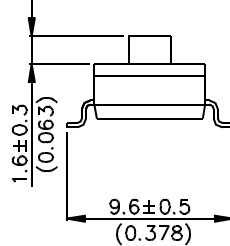
LOW PROFILE ACTUATOR



CIRCUIT DIAGRAM



EXTENDED ACTUATOR



P. C. B. LAYOUT (TOP VIEW)

