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## 1. FEATURES

- 1-1. The distance of 2 adjacent pins or stacked devices is 2.54 mm pitch.
- 1-2. All plastics are UL 94V-O grade fire retardant.

## 2. APPLICATIONS:

- 2-1. Measuring point change over switch
- 2-2. Service switch
- 2-3. Control for consumer devices


## 3. ELECTRICAL CHARACTERISTICS

- 3-1. Contact rating: 0.2A, 24V; 0.5A, 12V
- 3-2. Minimum contact rating: 1mA, 10mV
- 3-3. Contact resistance:
 

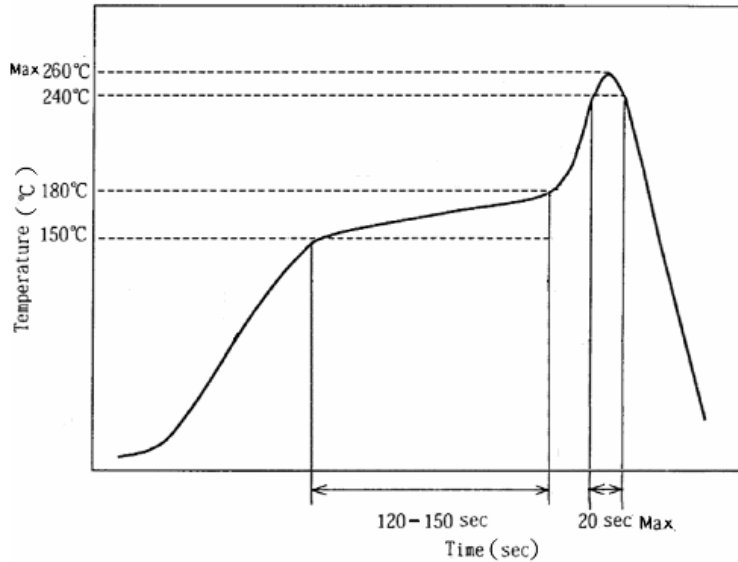
Initial	50m	Max.
After Life Test	100m	Max.
- 3-4. Dielectric strength: 2mA, 500VDC for 60 seconds
- 3-5. Capacitance: 1.5pF Max.
- 3-6. Insulation resistance: 10000M Min. under 500VDC
- 3-7. Operating life at Max. power: 5000 cycles

## 4. GENERAL CHARACTERISTICS

- 4-1. Storage temperature range: -40 ~ 85
- 4-2. Operating temperature range: -25 ~ 70
- 4-3. Resistance to Soldering heat: 260 ±3°C for 3 sec Max.(Standard version)  
260 ±3°C for 5 sec Max.(Tropical version)

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4-4. Reflow Soldering heat for SMT type(reference only)



4-5. Vibration: normal operation at 10 Hz to 60 Hz, 1.5mm movement

4-6. Saltspray: 35°C, 5% for 24 hours

4-7. Operation force : 800g Max.


## 5. PACKING

### 5-1. Packing method

All switches are packed into IC tubes as an inner packing unit, then ten IC tubes are bundled together with rubber bands. Length of IC tube: 560 mm. Thickness of IC tube: 0.5mm. Quantity per IC tube is 54pcs. Quantity per bundle is 540pcs.

### 5-2. Information on label (stuck to each bundle of IC tubes)

- |                |                 |
|----------------|-----------------|
| (1) Part NO.   | (2) Description |
| (3) Lot NO.    | (4) Quantity    |
| (5) Tester NO. | (6) P.O. NO.    |
| (7) QC stamp   | (8) Date        |

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## 6. MATERIAL LIST

NO.	Part	Materials	Colour & Plated
1	Case (Standard)	PBT glass reinforced nylon	Blue
2	Case (Tropical)	Pa66 glass reinforced nylon	Black
3	Slider	PA46 glass reinforced nylon	Ivory
4	Terminals	Brass	Au 3 $\mu$ " , over Ni 40 $\mu$ "
5	Fixed contact	Brass	Au 3 $\mu$ " , over Ni 40 $\mu$ "
6	Movable contact	Becu	Au 5 $\mu$ " , over Ni 40 $\mu$ "

## 7. DRAWIING

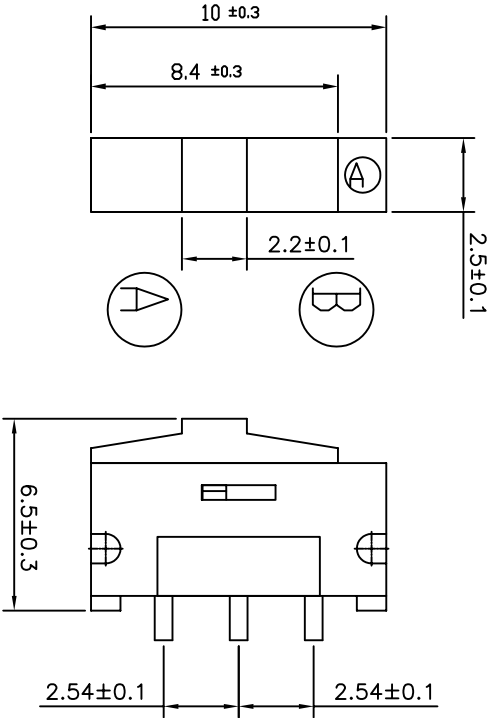
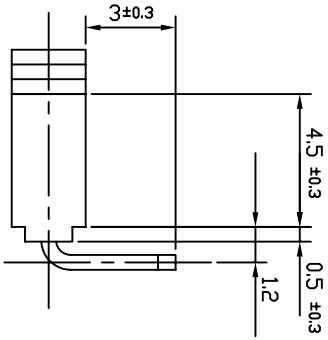
Switch dimensions: see attached drawing.

Circuit diagram: see attached drawing.

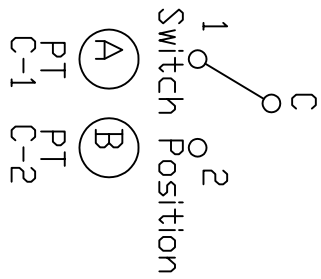
P.C.B. layout diagram: see attached drawing.



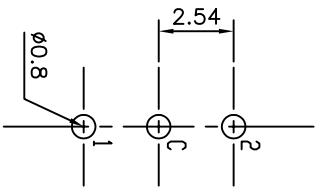
7D11-H9AE DIMENSION Unit: mm



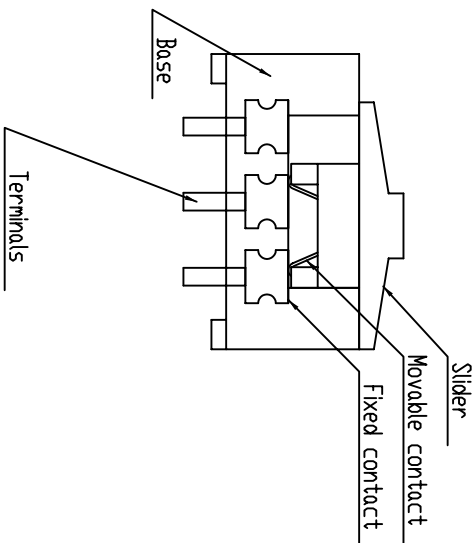
CIRCUIT DIAGRAM



P.C.B. LAY OUT



CONSTRUCTION



NO.	DETAILS	ALTERED BY	DATE	NORMAL TOLERANCE	PART NUMBER	UNIT	MM(INCH)	PART NAME
				RANGE	7D11-H9AE	SCALE	4 : 1	7D11
				TOLERANCE	MATERIAL	QUANTITY		TYPE
				0 - 1	-----	-----		ESP20XX
				±0.1	-----	-----		FILE NAME
				1 - 4	-----	-----		A1012021-2
				±0.3	-----	-----		ASSEMBLY NUMBER
				4 - 16	-----	-----		7D11-H9AE
				±0.5	-----	-----		SURFACE TREATMENT
				16 - 63	-----	-----		-----
				±0.8	-----	-----		-----
				63 - 250	-----	-----		-----
				±1.0	-----	-----		-----