

 ISO 9001 TS 14001 Company ANS 14001 OHSAS 18001	EXCEL CELL ELECTRONIC CO., LTD.	NO.	A30872	PAGE 1
SPECIFICATION		Edition	4	

EAH DIP SWITCH

1. FEATURES:

- 1-1 Same size with IC, can be assembled by any automatic IC inserter.
- 1-2 Molded 0.3" integrated circuit packing outline allowing automatic insertion.
- 1-3 Small size makes better heat convection during PC board wave soldering.
- 1-4 Top tape sealed to withstand wave soldering, board washing.
- 1-5 All plastics are UL 94V-0 grade fire retardant.
- 1-6 Gold plated contact to ensure low contact resistance and
Tin plated terminals to prevent contamination during soldering.
- 1-7 RoHS Compliant.

2. APPLICATIONS:

- 2-1 Numerical setting for computer terminal equipment.
- 2-2 Price setting for vending machines.
- 2-3 Programming for game machines.
- 2-4 Programming for industrial equipment and measuring instruments.

3. SPECIFICATION:

3-1 ELECTRICAL

3-1-1 Contact rating

switching	25 mA, 24 VDC
non-switching	100 mA

3-1-2 Contact resistance

initial	50 mΩ Max.
after life test	100 mΩ Max.

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3-1-3 Insulation resistance	1,000 mΩ Min. at 100 VDC
3-1-4 Dielectric strength	500 VDC Min. for 60 seconds
3-1-5 Capacitance between adjacent switches	5 pF Max.

3-2 MECHANICAL AND ENVIRONMENTAL

3-2-1 Temperature rating	
operating	-25°C to +70°C
storage	-40°C to +85°C
3-2-2 Operation force	800g Max.
3-2-3 Mechanical Life	2,000 operations
3-2-4 Humidity	95% RH, 40°C for 96 Hrs.
3-2-5 Vibration	10Hz-55Hz-10Hz for 6 Hrs.
3-2-6 Solderability	After flux 230±5°C for 5±0.5 seconds, 95% coverage
3-2-7 Resistance to soldering heat	260±5°C for 5±1 seconds

4. OPTIONS:

- 4-1 Special marking is available.
- 4-2 Extended Actuator.
- 4-3 Top Tape Sealed.

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5. PART NUMBERING SYSTEM

EAH	1	XX	X	99	Z	
						Z : RoHS Compliant
						XX : Special product number
						Actuator, sealing and rows spacing options:
						L : Low Profile Actuator and
						rows spacing 8.50 mm
						L01: Low Profile Actuator and
						rows spacing 7.62 mm
						E : Extended Actuator and
						rows spacing 7.62 mm
						E01: Extended Actuator and
						rows spacing 8.50 mm
						LT : Top Tape Sealed & Low Profile
						Actuator and rows spacing 8.50 mm
						LT01: Top Tape Sealed & Low Profile
						Actuator and rows spacing 7.62 mm
						(Note:01 is special product number)
						Number of positions:2,3,4,5,6,7,8,10,12
						Contact form: SPST
						Series: EAH: Automatic inserting type

6. PACKING

6-1 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.

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Model no.	Quantity per IC tube		Quantity per bundle	
	non tape	tape sealed	non tape	tape sealed
EAH102L(E)XX(Z)	78	78	780	780
EAH103L(E)XX(Z)	56	56	560	560
EAH104L(E)XX(Z)	43	43	430	430
EAH105L(E)XX(Z)	36	36	360	360
EAH106L(E)XX(Z)	31	31	310	310
EAH107L(E)XX(Z)	27	27	270	270
EAH108L(E)XX(Z)	23	23	230	230
EAH110L(E)XX(Z)	19	19	190	190
EAH112L(E)XX(Z)	16	16	160	160

6-2 INFORMATION ON LABEL (stuck to each bundle of IC tubes).

- | | |
|------------------|-------------------------|
| (1) DESCRIPTION. | (6) WARNING. |
| (2) LOT NO. | (7) QC STAMP. |
| (3) QUANTITY. | (8) DATE. |
| (4) TESTER NO. | (9) MANUFACTURERS NAME. |
| (5) ECE MARK. | |

7. DRAWINGS

Dip switch dimensions: see attached drawing.

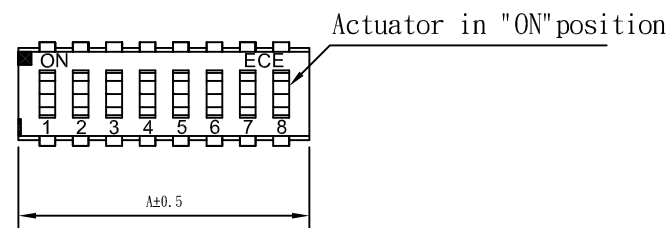
Circuit diagram: see attached drawing.

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

EAH DIMENSIONS

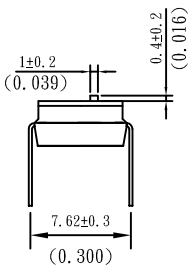
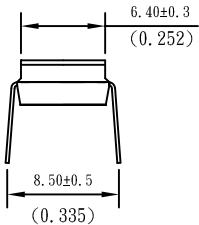
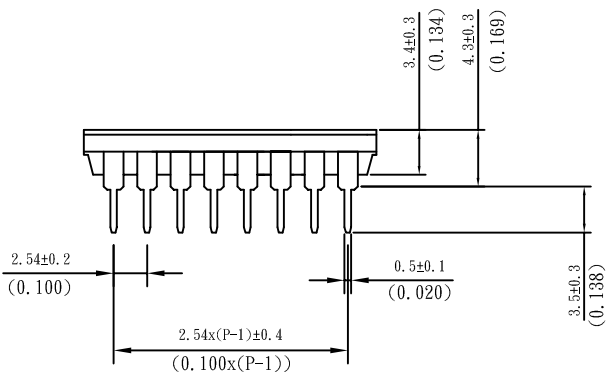
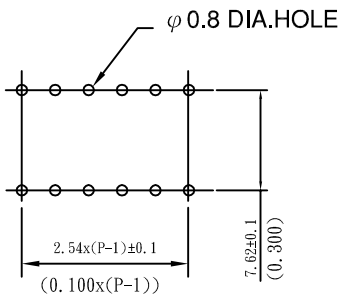
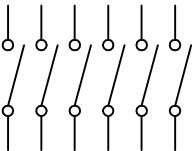
CIRCUIT DIAGRAM

P.C.B PATTERN

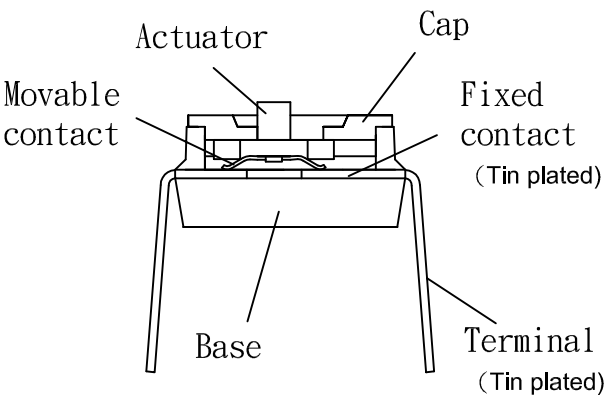


(L)TYPE

(E)TYPE



CONSTRUCTION



Dimension A

Positions	2	3	4	5	6	7	8	10	12
A	6.88 (0.271)	9.42 (0.371)	11.96 (0.471)	14.50 (0.571)	17.04 (0.671)	19.58 (0.771)	22.12 (0.871)	27.20 (1.071)	32.28 (1.271)

				NORMAL TOLERANCE		 EXCEL CELL ELECTRONIC CO., LTD.						PART NUMBER		EAH1XXXX99Z	
				RANGE	TOLERANCE										
				0-1	±0.1	CHECK	Marcus Li	DESIGN	William Hsu	DRAWN	William Hsu	UNIT	MM (INCH)	PART NAME	EAH
				1-4	±0.3							SCALE	5:3	TYPE	SPST
				4-16	±0.5							SIZE	A4	FILE NAME	7161XXXX99ZA.dwg
				16-63	±0.8							PROJECTION		EDITION	A
				63-250	±1.0										
NO.	DETAILS	ALTERED BY	DATE												