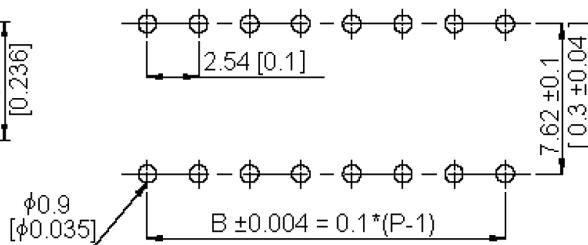
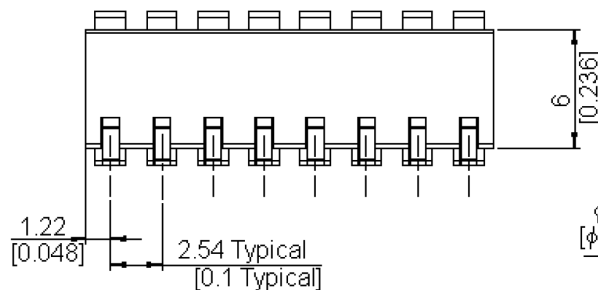
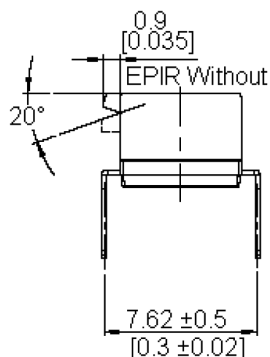
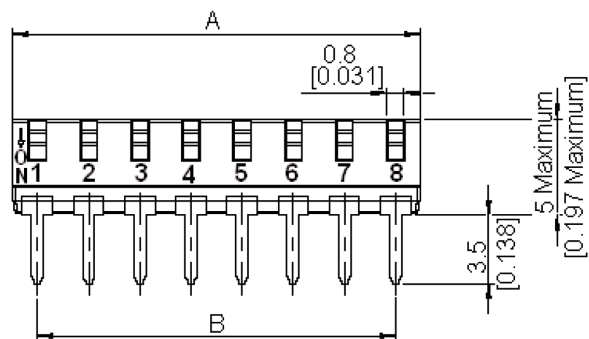
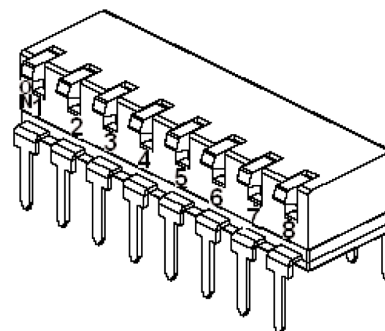


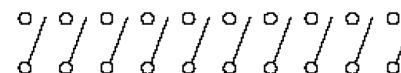
MCEPI



PCB Layout



Schematic (Typical)



2, 4, 6, 8, 10 Positions Available

Dimensions : Millimetres (Inches)

Dimensions Table:

A mm (Inches)	B mm (Inches)	Part Number
4.98 (0.196)	2.54 (0.1)	MCEPI-02
10.06 (0.396)	7.62 (0.3)	MCEPI-04
15.14 (0.596)	12.7 (0.5)	MCEPI-06
20.22 (0.796)	17.78 (0.7)	MCEPI-08
25.3 (0.996)	22.86 (0.9)	MCEPI-10

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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DATE:

19/01/16

DRAWING TITLE:

Dual In Line Switches - Piano Type

SIZE

A4

DWG NO.

MCEPX-XX

ELECTRONIC FILE

MCEPX-XX-1

REV

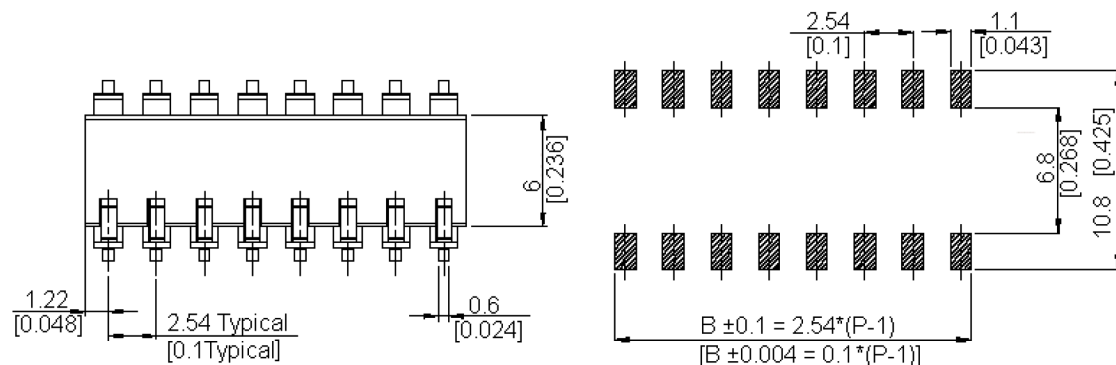
1.0

SCALE: NTS

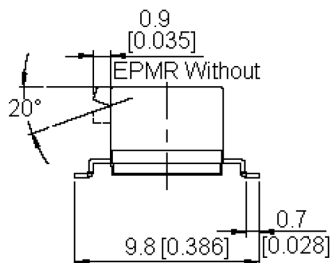
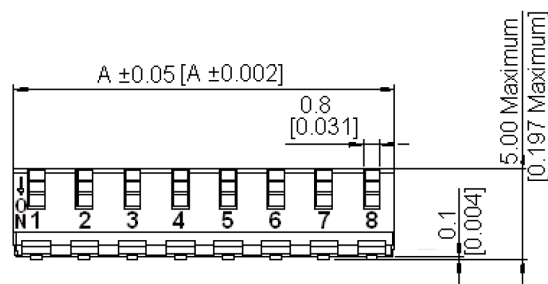
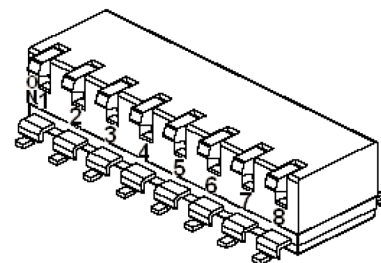
U.O.M.: mm (inch)

SHEET: 1 of 4

MCEPM



PCB Layout



Schematic (Typical)



2, 4, 6, 8, 10 Positions Available

Dimensions : Millimetres (Inches)

Dimensions Table:

A mm (Inches)	B mm (Inches)	Part Number
4.98 (0.196)	2.54 (0.1)	MCEPM-02
10.06 (0.396)	7.62 (0.3)	MCEPM-04
15.14 (0.596)	12.7 (0.5)	MCEPM-06
20.22 (0.796)	17.78 (0.7)	MCEPM-08
25.3 (0.996)	22.86 (0.9)	MCEPM-10

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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APPROVED BY:

ER

DATE:

19/01/16

DRAWING TITLE:

Dual In Line Switches - Piano Type

SIZE

A4

DWG NO.

MCEPX-XX

ELECTRONIC FILE

MCEPX-XX-1

REV

1.0

SCALE: NTS

U.O.M.: mm (inch)

SHEET: 2 of 4



PART NO.

MCEP Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	1.0	RELEASED	AB	19/01/16	ER	19/01/16	ER	19/01/16

Specifications:

Mechanical:

Max. operating force : 800 gf
Operating temperature range : -20°C to +85°C
Storage temperature range : -40°C to +85°C
Mechanical life : 2,000 cycles

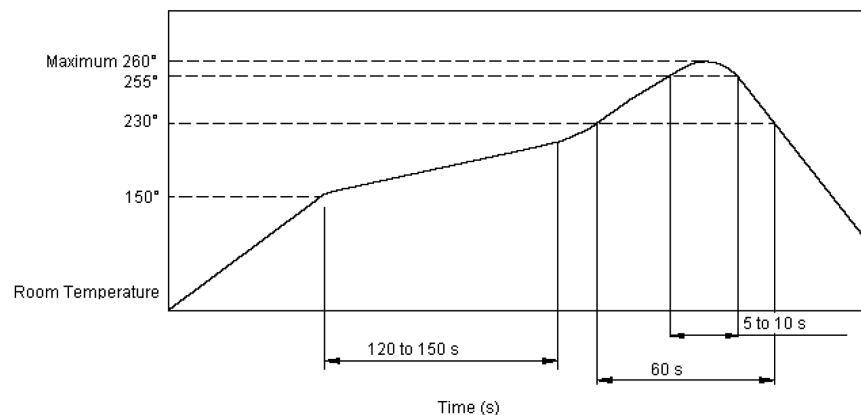
Electrical:

Electrical life : 2,000 cycles
Rating : 25mA, 24V DC
Max. contact resistance : 100mΩ at 500 V DC
Max. insulation resistance : 100MΩ at 500 V DC
Dielectric strength : 500V AC / 1 minute
Circuit : Single pole and single throw

Materials:

Cover : UL 94V-0 Nylon high temperature thermoplastic
Colour : Black
Base : UL 94V-0 Nylon high temperature thermoplastic
Colour : Black
Stem : UL 94V-0 Nylon high temperature thermoplastic
Colour : White
Contact : Alloy copper with gold cladding
Terminal : Brass with gold cladding

Solderability Graph:



Reflow Temperature Profile

Solderability

- 1) MCEPI(R)-V Soldering
Temperature : +245°C ±3°C
Lead-Free solder : M705E JIS Z
3282 Class A
(Tin 96.5%, Silver 3%, Copper 0.5%)
- 2) Flux : 5 - 10 seconds.
- 3) Duration of solder Immersion: 5±1Sec.

No anti-soldering and the coverage of dipping into solder must more than 75% was requested.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

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19/01/16

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ER

DATE:

19/01/16

DRAWING TITLE:

Dual In Line Switches - Piano Type

SIZE

A4

DWG NO.

MCEPX-XX

ELECTRONIC FILE

MCEPX-XX-1

REV

1.0

SCALE: NTS

U.O.M.: mm (inch)

SHEET: 3 of 4



PART NO.

MCEP Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	1.0	RELEASED	AB	19/01/16	ER	19/01/16	ER	19/01/16

Soldering Process:

Wave soldeing : Recommended solder temperature at 500°F (260°C) maximum of 5 seconds for through hole type

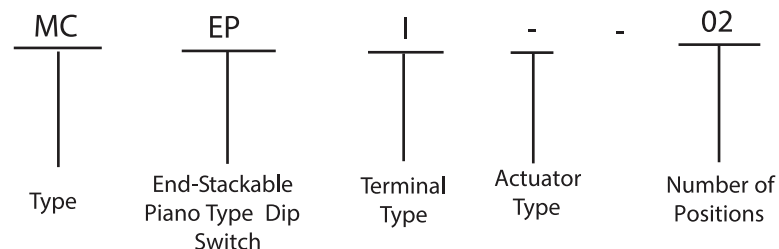
Hand soldering : Use a soldering iron of 30 watts, controlled at 350°C approximately maximum 5 seconds while applying

Reflow soldering : When applying reflow soldering, the peak temperature or the reflow Oven should be set at 260°C max.

Do not wash the switch except top tape sealed type, which suitable for spray cleaning method from top of the s/w

Part Number Explanation:**Part Number Table**

Description	Number of Positions	Part Number
Dual In Line Switches Piano Type	2	MCEPI-02
	4	MCEPI-04
	6	MCEPI-06
	8	MCEPI-08
	10	MCEPI-10
	2	MCEPM-02
	4	MCEPM-04
	6	MCEPM-06
	8	MCEPM-08
	10	MCEPM-10



Terminal Type : I = Through Hole Type

M = SMT Type

Actuator Type : □ = Long Actuator

Number of Positions : 02, 04, 06, 08, 10 Positions

www.element14.com
www.farnell.com
www.newark.com

TOLERANCES:

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ER

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19/01/16

APPROVED BY:

ER

DATE:

19/01/16

DRAWING TITLE:

Dual In Line Switches - Piano Type

SIZE

A4

DWG NO.

MCEPX-XX

ELECTRONIC FILE

MCEPX-XX-1

REV

1.0

SCALE: NTS

U.O.M.: mm (inch)

SHEET: 4 of 4