



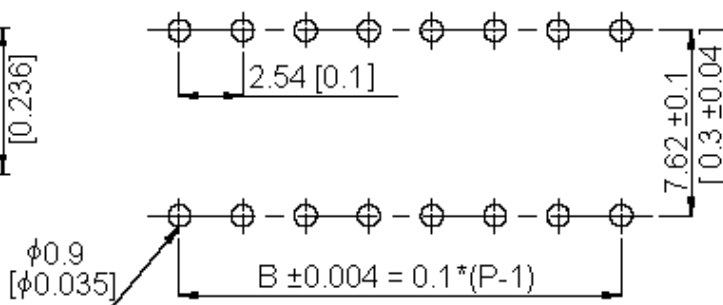
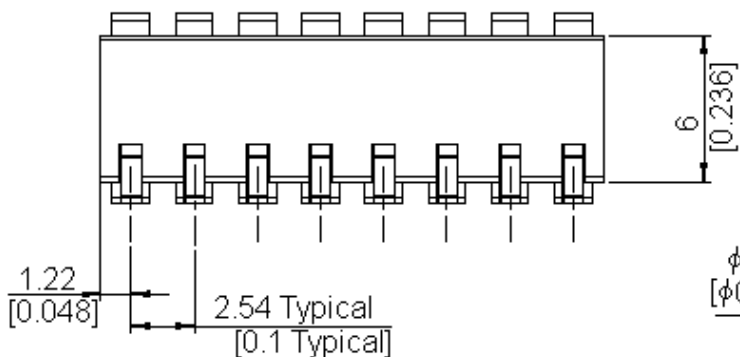
PART NO.

**MCEP Series**

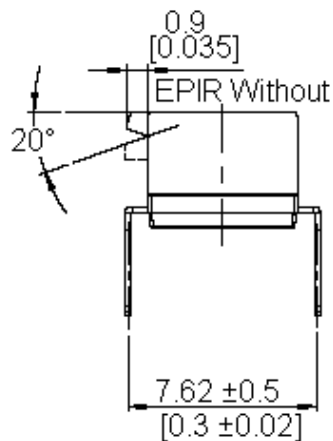
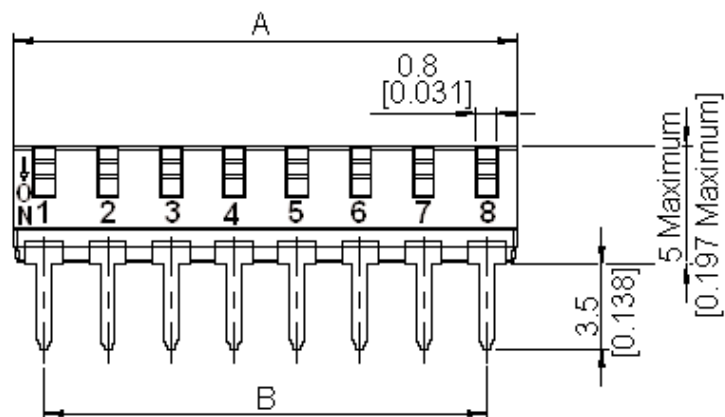
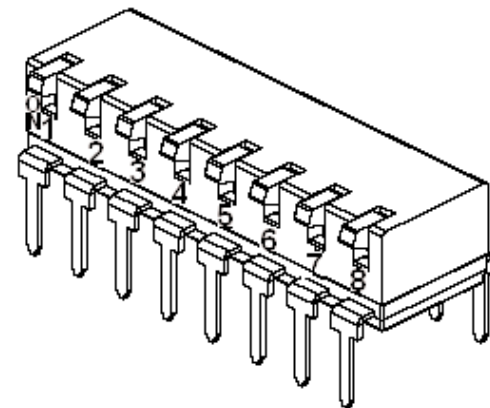
## REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Ashok	19/01/12	Jagan	19/01/12	Farnell	02/02/12

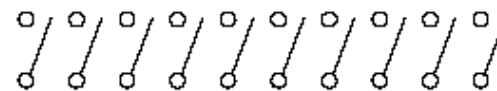
## EPI



PCB Layout



Schematic (Typical)



2, 4, 6, 8, 10 Positions Available

Dimensions: Millimetres (Inches)

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Ashok

## DATE:

19/01/12

## CHECKED BY:

Jagan

## DATE:

19/01/12

## APPROVED BY:

## DATE:

02/02/12

## DRAWING TITLE:

**Dual In Line Switches - Piano Type**SIZE  
**A**

DWG NO.

**M10000816**

ELECTRONIC FILE

EPI(M)-V\_DWG

REV

**A**

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 1 OF 6



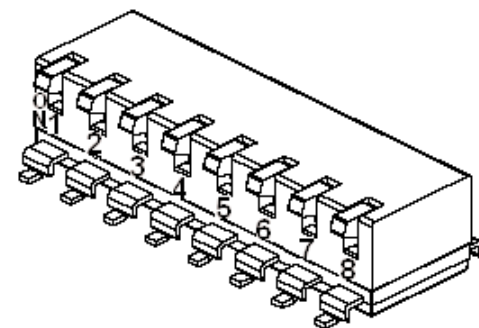
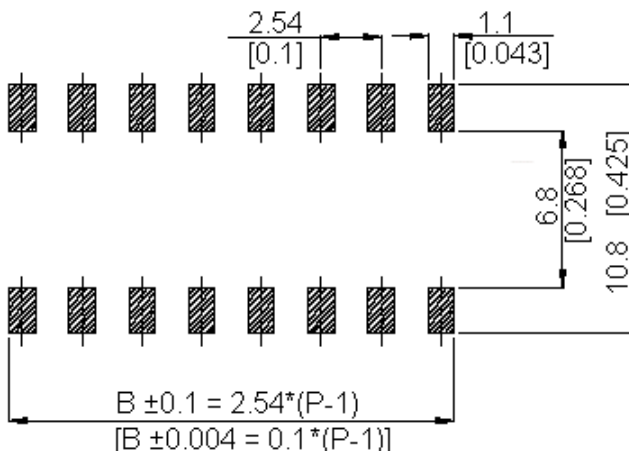
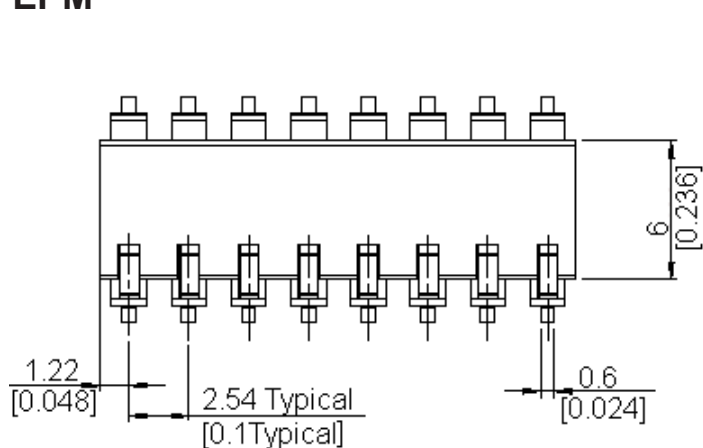
PART NO.

**MCEP Series**

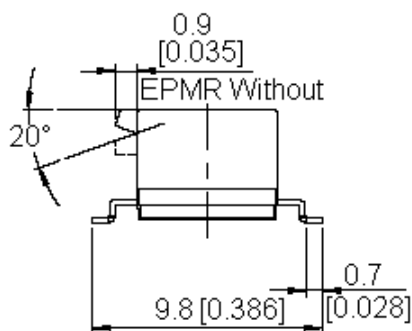
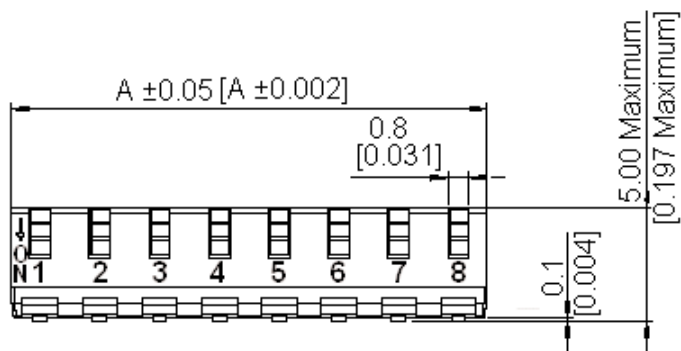
## REVISIONS

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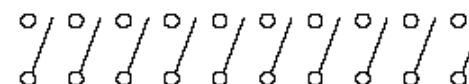
## EPM



## PCB Layout



## Schematic (Typical)

**2, 4, 6, 8, 10 Positions Available**

Dimensions: Millimetres (Inches)

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Ashok

## DATE:

19/01/12

## CHECKED BY:

Veena

## DATE:

19/01/12

## APPROVED BY:

## DATE:

02/02/12

## DRAWING TITLE:

**Dual In Line Switches - Piano Type**SIZE  
**A**

DWG NO.

**M10000816**ELECTRONIC FILE  
EPI(M)-V\_DWGREV  
**A**

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 2 OF 6



PART NO.

**MCEP Series**

## REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Ashok	19/01/12	Jagan	19/01/12	Farnell	02/02/12

**Specifications:****Mechanical:**

Maximum 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 : 25 mA, 24 V dc  
Maximum contact resistance : 100 mΩ at 500 V dc  
Maximum insulation resistance : 100 MΩ at 500 V dc  
Dielectric strength : 500 V 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

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**APPROVED BY:****DATE:**

02/02/12

**DRAWING TITLE:****Dual In Line Switches - Piano Type****SIZE**  
**A**

DWG NO.

**M10000816**ELECTRONIC FILE  
EPI(M)-V\_DWGREV  
**A**

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 3 OF 6

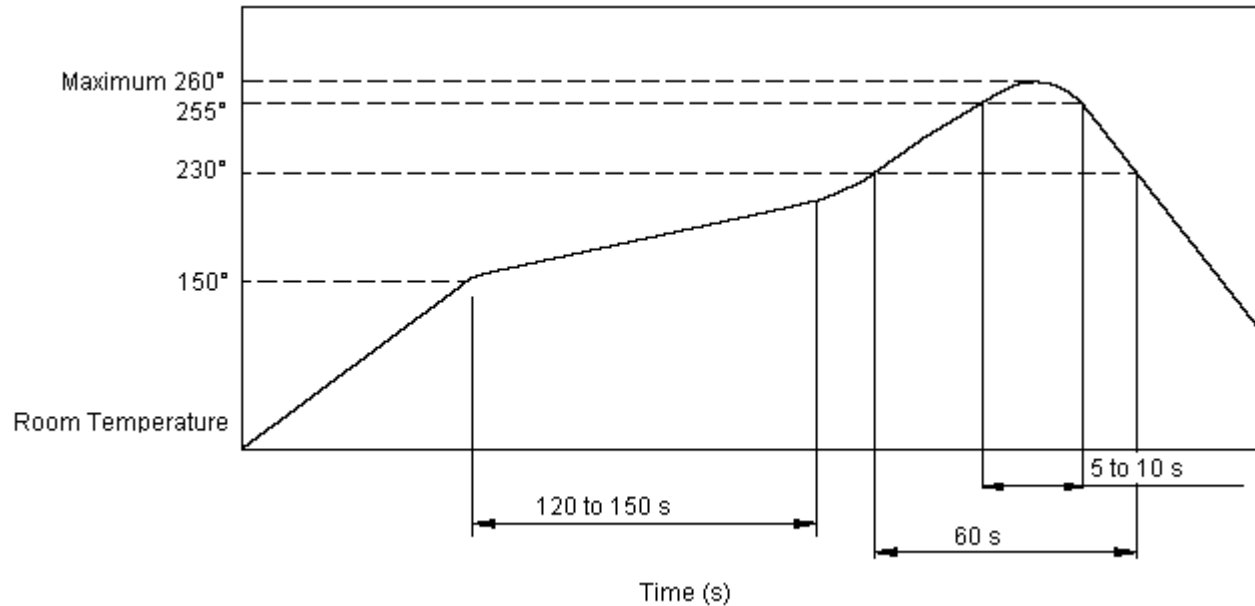


PART NO.

**MCEP Series**

## REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Ashok	19/01/12	Jagan	19/01/12	Farnell	02/02/12

**Reflow Temperature Profile****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 maximum

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

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**DATE:**

19/01/12

**APPROVED BY:**

02/02/12

**DRAWING TITLE:****Dual In Line Switches - Piano Type****SIZE  
A**

DWG NO.

**M10000816**ELECTRONIC FILE  
EPI(M)-V\_DWGREV  
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 4 OF 6



PART NO.

**MCEP Series**

## REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Ashok	19/01/12	Jagan	19/01/12	Farnell	02/02/12

## Specification Table

Number of Positions	Dimensions (A)	Dimensions (B)	Part Number
2	4.98 (0.196)	2.54 (0.1)	MCEPI-02
4	10.06 (0.396)	7.62 (0.3)	MCEPI-04
6	15.14 (0.596)	12.7 (0.5)	MCEPI-06
8	20.22 (0.796)	17.78 (0.7)	MCEPI-08
10	25.3 (0.996)	22.86 (0.9)	MCEPI-10
2	4.98 (0.196)	2.54 (0.1)	MCEPM-02
4	10.06 (0.396)	7.62 (0.3)	MCEPM-04
6	15.14 (0.596)	12.7 (0.5)	MCEPM-06
8	20.22 (0.796)	17.78 (0.7)	MCEPM-08
10	25.3 (0.996)	22.86 (0.9)	MCEPM-10

Dimensions : Millimetres (Inches)

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## DATE:

02/02/12

## DRAWING TITLE:

**Dual In Line Switches - Piano Type**SIZE  
**A**

DWG NO.

**M10000816**ELECTRONIC FILE  
EPI(M)-V\_DWGREV  
**A**

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 5 OF 6



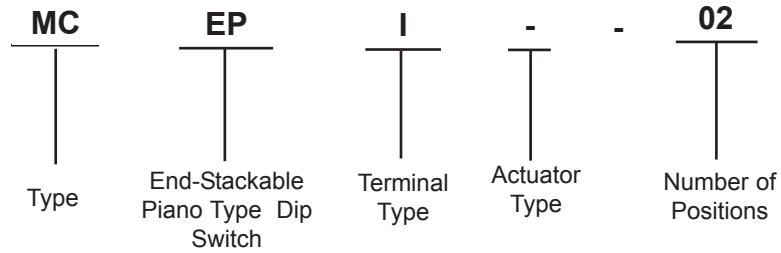
PART NO.

**MCEP Series**

## REVISIONS

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## Part Number Explanation:



**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](http://www.element14.com)  
[www.farnell.com](http://www.farnell.com)  
[www.newark.com](http://www.newark.com)

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## APPROVED BY:

## DATE:

02/02/12

## DRAWING TITLE:

**Dual In Line Switches - Piano Type**

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10000816	EPI(M)-V_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 6 OF 6