



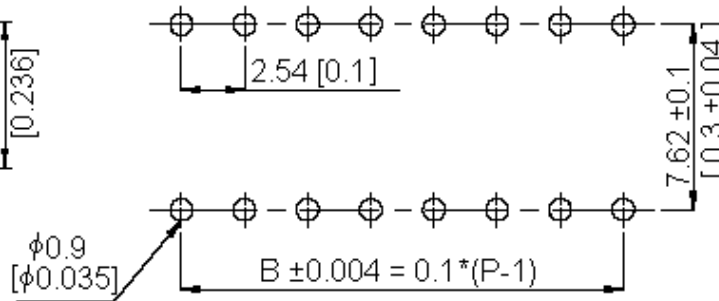
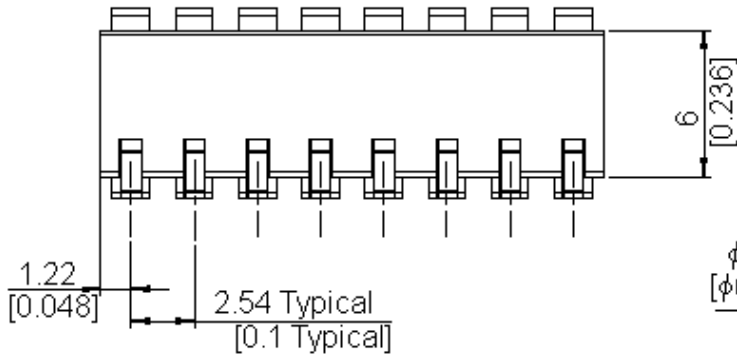
PART NO.

**MCEP Series**

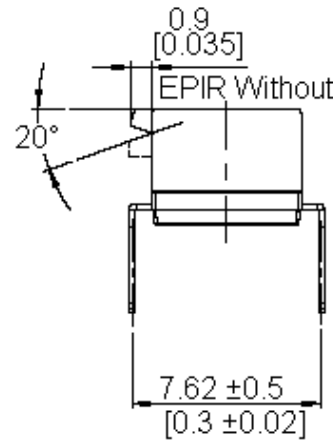
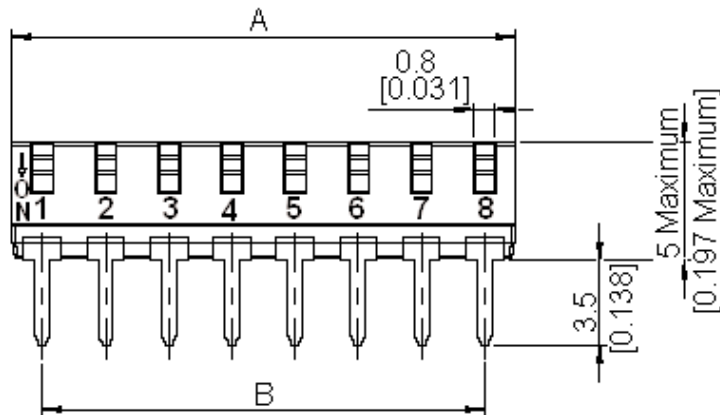
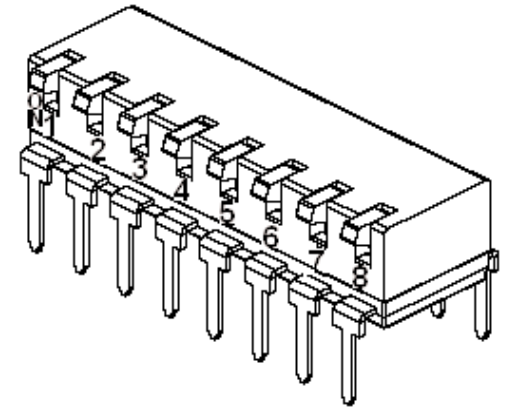
**REVISIONS**

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

**CHECKED BY:**

Jagan

**APPROVED BY:**

**DATE:**

19/01/12

**DATE:**

19/01/12

**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



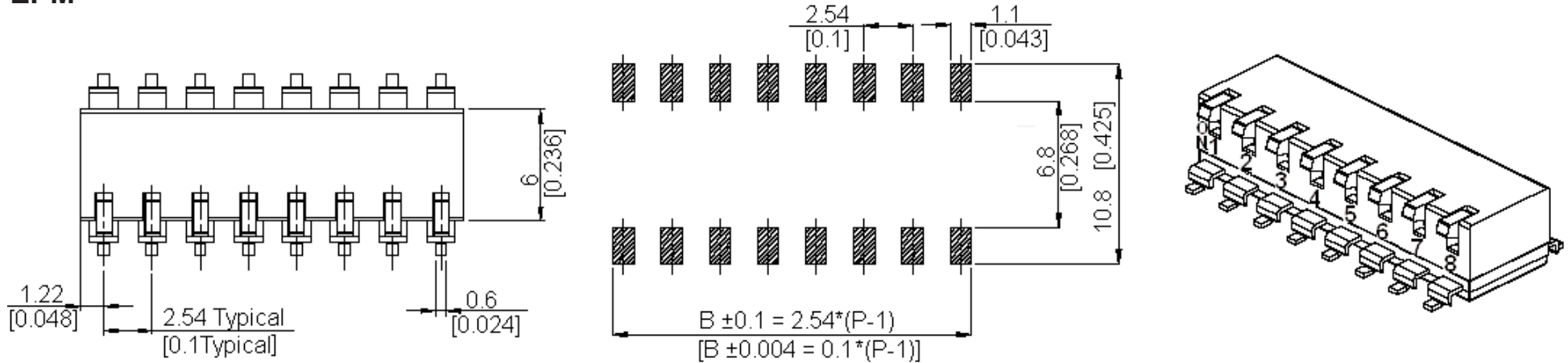
PART NO.

**MCEP Series**

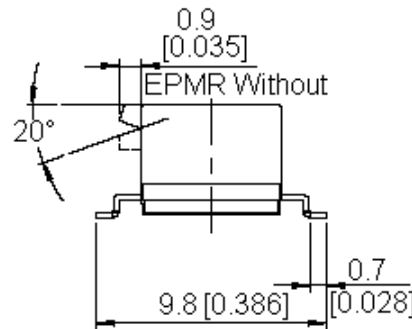
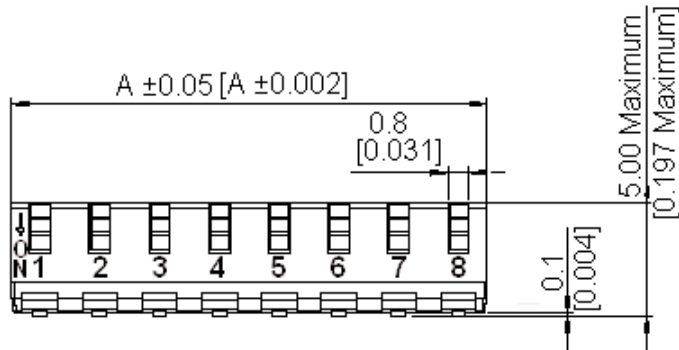
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-	A	RELEASED	Ashok	19/01/12	Jagan	19/01/12	Farnell	02/02/12

**EPM**



**PCB Layout**



**Schematic (Typical)**



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

Dimensions: Millimetres (Inches)

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Ashok

**DATE:**

19/01/12

**DRAWING TITLE:**

**Dual In Line Switches - Piano Type**

**CHECKED BY:**

Veena

**DATE:**

19/01/12

SIZE  
**A**

DWG NO.

**M10000816**

ELECTRONIC FILE  
EPI(M)-V\_DWG

REV  
**A**

**APPROVED BY:**

02/02/12

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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	Ashok	19/01/12				
	<b>CHECKED BY:</b>	<b>DATE:</b>	<b>SIZE</b> <b>A</b>	<b>DWG NO.</b>  <b>M10000816</b>	<b>ELECTRONIC FILE</b> <b>EPI(M)-V_DWG</b>	<b>REV</b>  <b>A</b>
	Veena	19/01/12				
<b>APPROVED BY:</b>	<b>DATE:</b>	<b>SCALE: NTS</b>		<b>U.O.M.: mm (Inches)</b>		<b>SHEET: 3 OF 6</b>
		02/02/12				

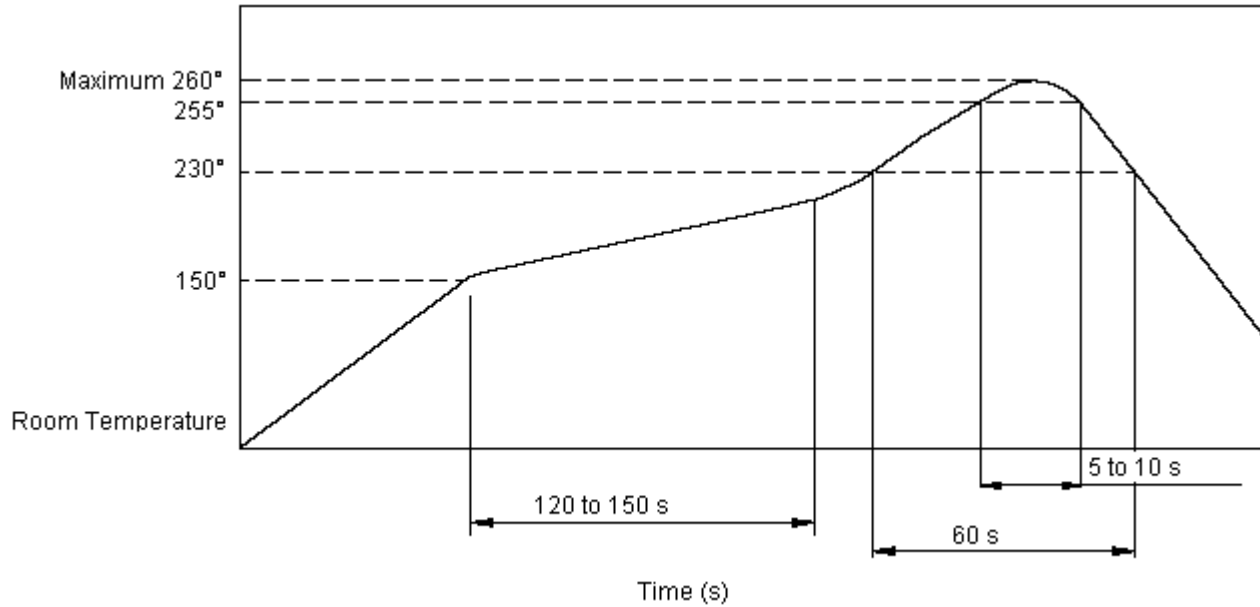


PART NO.

**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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<b>DRAWN BY:</b>	<b>DATE:</b>
Ashok	19/01/12
<b>CHECKED BY:</b>	<b>DATE:</b>
Veena	19/01/12
<b>APPROVED BY:</b>	<b>DATE:</b>
	02/02/12

**DRAWING TITLE:**

**Dual In Line Switches - Piano Type**

<b>SIZE</b> A	<b>DWG NO.</b> M10000816	<b>ELECTRONIC FILE</b> EPI(M)-V_DWG	<b>REV</b> A
<b>SCALE: NTS</b>		<b>U.O.M.: mm (Inches)</b>	<b>SHEET: 4 OF 6</b>



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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<b>CHECKED BY:</b>	<b>DATE:</b>
Veena	19/01/12
<b>APPROVED BY:</b>	<b>DATE:</b>
	02/02/12

<b>DRAWING TITLE:</b>			
<b>Dual In Line Switches - Piano Type</b>			
<b>SIZE</b>	<b>DWG NO.</b>	<b>ELECTRONIC FILE</b>	<b>REV</b>
<b>A</b>	<b>M10000816</b>	<b>EPI(M)-V_DWG</b>	<b>A</b>
<b>SCALE: NTS</b>		<b>U.O.M.: mm (Inches)</b>	<b>SHEET: 5 OF 6</b>



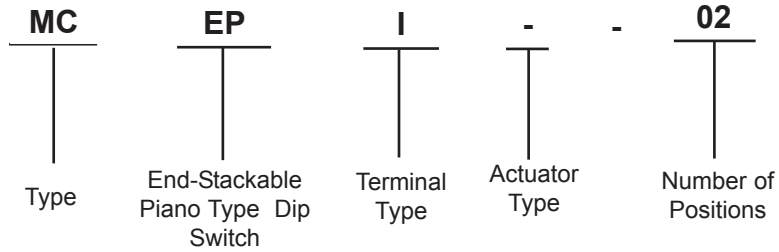
PART NO.

**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

**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  
www.farnell.com  
www.newark.com

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	Ashok	19/01/12											
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	SIZE	DWG NO.		M10000816	ELECTRONIC FILE	REV							
A			EPI(M)-V_DWG	A									
Veena	19/01/12												
<b>APPROVED BY:</b>	<b>DATE:</b>	SCALE: NTS		U.O.M.: mm (Inches)		SHEET: 6 OF 6							
	02/02/12												