



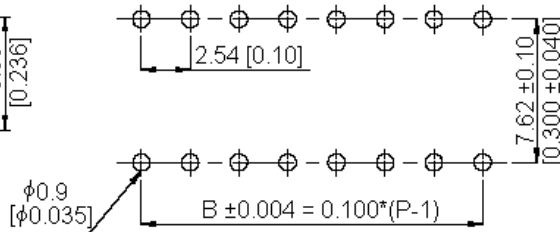
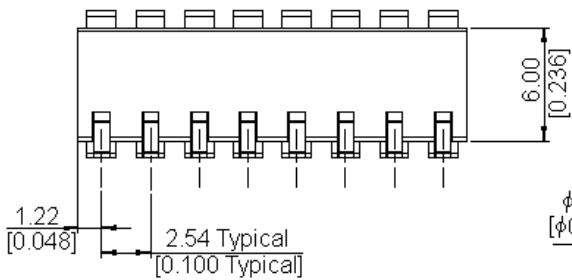
PART NO.

MCEP Series

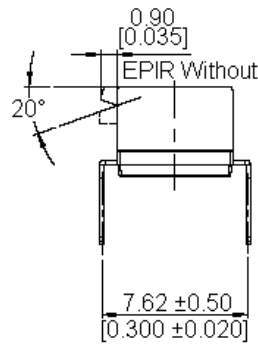
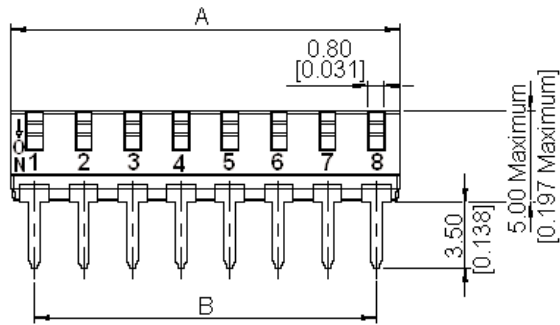
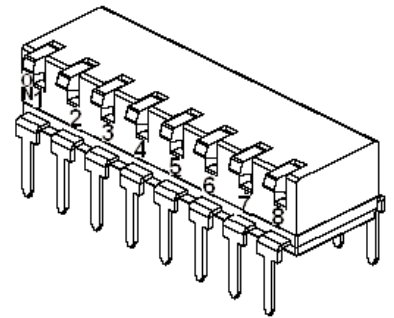
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Sumana	17/3/08	Suresh	17/3/08	G. C	01/4/08

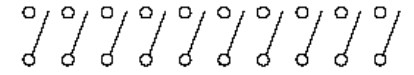
EPI



PCB Layout



Schematic (Typical)



2, 4, 6, 8, 10 Positions Available

Dimensions: Millimetres (Inches)

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008.

TOLERANCES:
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Sumana	17/03/08
CHECKED BY:	DATE:
Suresh	17/03/08
APPROVED BY:	DATE:
G.Cook	01/04/08

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: 1 OF 6	



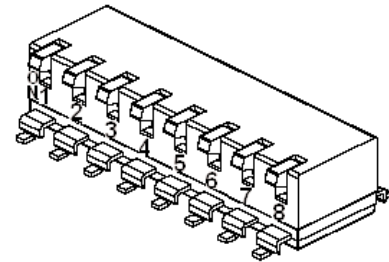
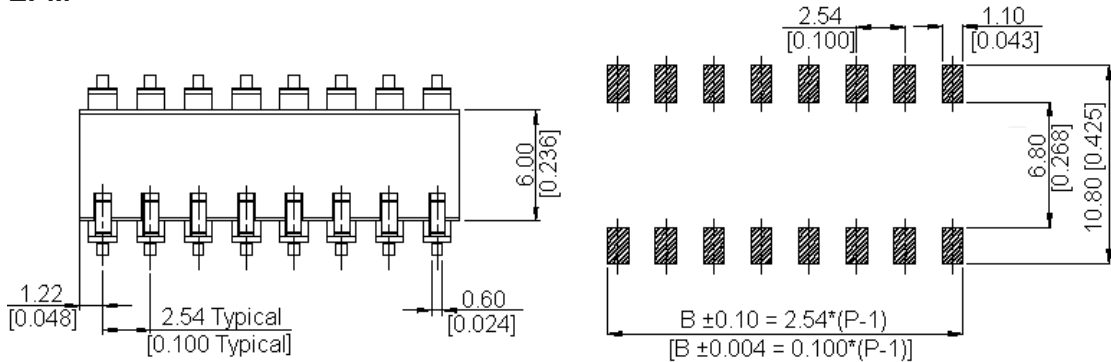
PART NO.

MCEP Series

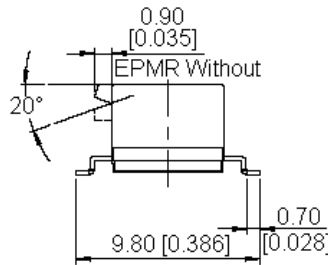
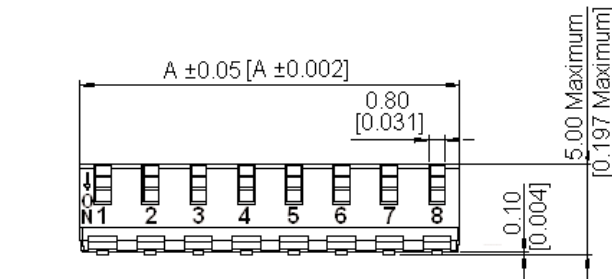
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Sumana	17/3/08	Suresh	17/3/08	G. C	01/4/08

EPM



PCB Layout



Schematic (Typical)



Dimensions: Millimetres (Inches)

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008.

TOLERANCES:
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Sumana	17/03/08
CHECKED BY:	DATE:
Suresh	17/03/08
APPROVED BY:	DATE:
G.Cook	01/04/08

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: 2 OF 6



PART NO.

MCEP Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Sumana	17/3/08	Suresh	17/3/08	G. C	01/4/08

Specifications:

Mechanical:

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

Electrical:

Electrical life : 2,000 cycles.
 Rating : 25mA, 24V dc.
 Maximum contact resistance : 100mΩ at 500V dc.
 Maximum insulation resistance : 100MΩ at 500V dc.
 Dielectric strength : 500V ac/1 minute.
 Circuit : Single pole 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.

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Sumana	17/03/08
CHECKED BY:	DATE:
Suresh	17/03/08
APPROVED BY:	DATE:
G.Cook	01/04/08

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: 3 OF 6

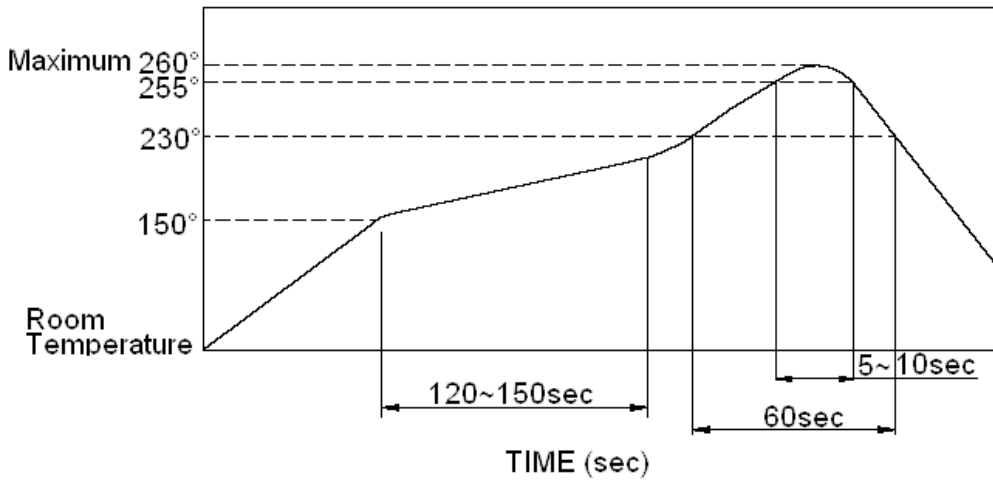


PART NO.

MCEP Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Sumana	17/3/08	Suresh	17/3/08	G. C	01/4/08



Reflow Temperature Profile

Soldering Process:

- Wave soldering:** 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.

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008.

TOLERANCES:
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Sumana	17/03/08
CHECKED BY:	DATE:
Suresh	17/03/08
APPROVED BY:	DATE:
G.Cook	01/04/08

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: 4 OF 6	



PART NO.

MCEP Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Sumana	17/3/08	Suresh	17/3/08	G. C	01/4/08

Specification Table

Number of Positions	Dimensions (A)	Dimensions (B)	Part Number
2	4.98 (0.196)	2.54 (0.100)	MCEPI-02
4	10.06 (0.396)	7.62 (0.300)	MCEPI-04
6	15.14 (0.596)	12.70 (0.500)	MCEPI-06
8	20.22 (0.796)	17.78 (0.700)	MCEPI-08
10	25.3 (0.996)	22.86 (0.900)	MCEPI-10
2	4.98 (0.196)	2.54 (0.100)	MCEPM-02
4	10.06 (0.396)	7.62 (0.300)	MCEPM-04
6	15.14 (0.596)	12.70 (0.500)	MCEPM-06
8	20.22 (0.796)	17.78 (0.700)	MCEPM-08
10	25.3 (0.996)	22.86 (0.900)	MCEPM-10

Dimensions : Millimetres (Inches)

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008.

TOLERANCES:
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Sumana	17/03/08
CHECKED BY:	DATE:
Suresh	17/03/08
APPROVED BY:	DATE:
G.Cook	01/04/08

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: 5 OF 6



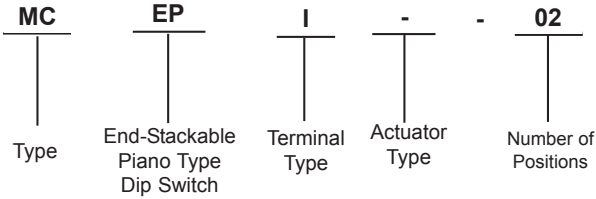
PART NO.

MCEP Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Sumana	17/3/08	Suresh	17/3/08	G. C	01/4/08

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.

<http://www.farnell.com>
<http://www.newark.com>
<http://www.cpc.co.uk>

This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC MULTICOMP is the registered trademark of the Group. © Premier Farnell plc 2008.

TOLERANCES:
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:	DATE:
Sumana	17/03/08
CHECKED BY:	DATE:
Suresh	17/03/08
APPROVED BY:	DATE:
G.Cook	01/04/08

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