



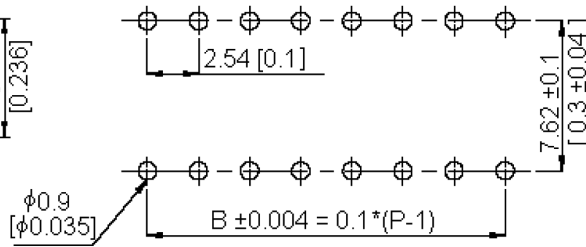
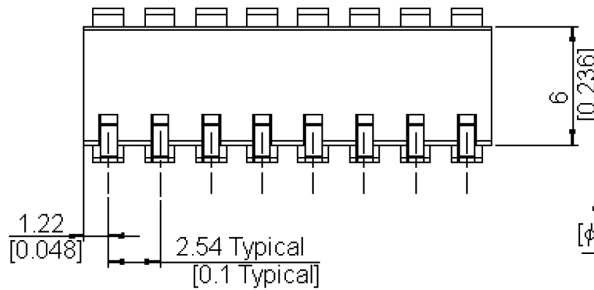
PART NO.

MCEP Series

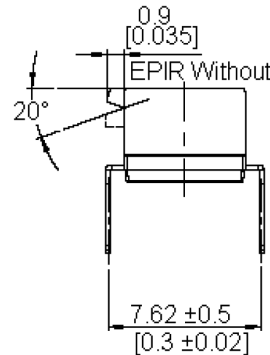
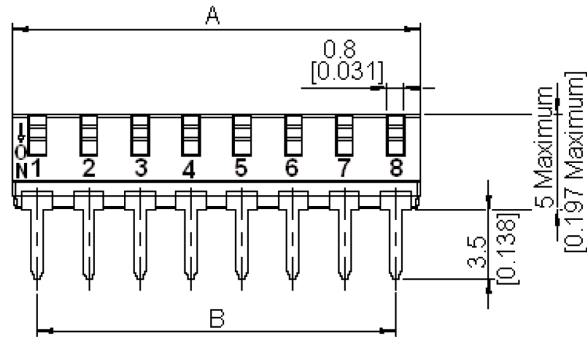
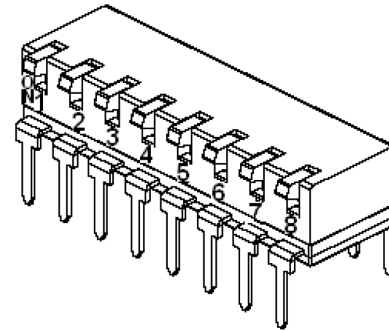
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-	1.0	RELEASED	AB	19/01/16	ER	19/01/16	ER	19/01/16

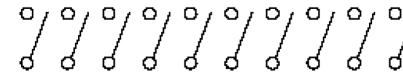
MCEPI



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

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DRAWING TITLE:			
Dual In Line Switches - Piano Type			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A4	MCEPX-XX	MCEPX-XX-1	1.0
SCALE: NTS		U.O.M.: mm (inch)	SHEET: 1 of 4



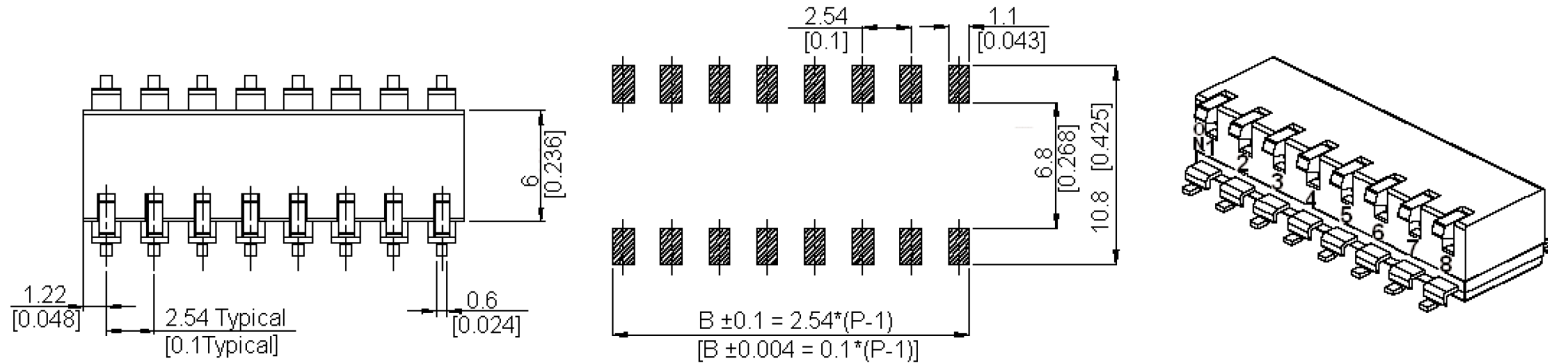
PART NO.

MCEP Series

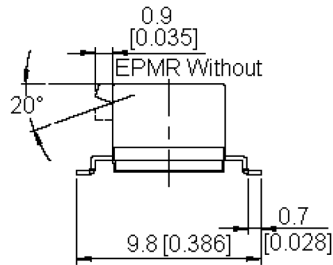
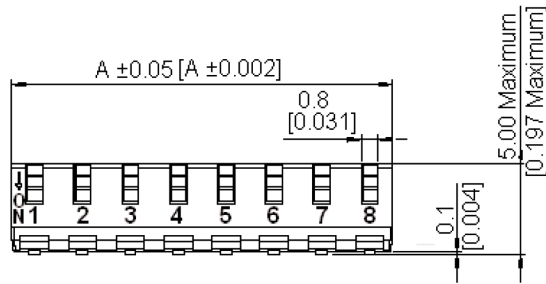
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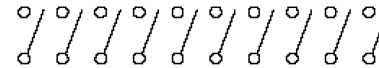
MCEPM



PCB Layout



Schematic (Typical)



2, 4, 6, 8, 10 Positions Available

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

Dimensions : Millimetres (Inches)

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DRAWING TITLE:			
Dual In Line Switches - Piano Type			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A4	MCEPX-XX	MCEPX-XX-1	1.0
SCALE: NTS		U.O.M.: mm (inch)	SHEET: 2 of 4



PART NO.

MCEP Series

REVISIONS

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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

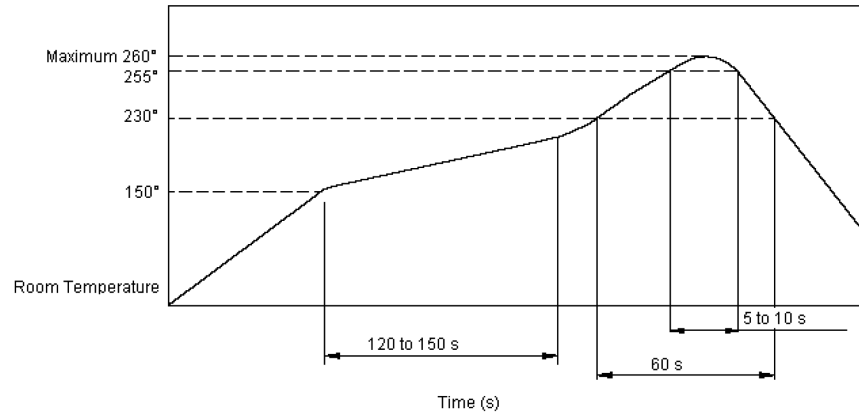
Electrical:

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%)	No anti-soldering and the coverage of dipping into solder must more than 75% was requested.
	2) Flux : 5 - 10 seconds.	
	3) Duration of solder Immersion: 5±1Sec.	

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DRAWING TITLE:			
Dual In Line Switches - Piano Type			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A4	MCEPX-XX	MCEPX-XX-1	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
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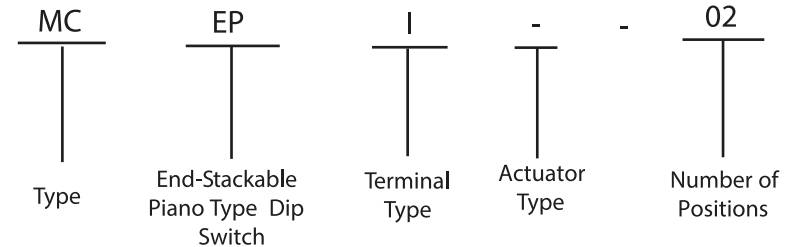
Soldering Process:

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

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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