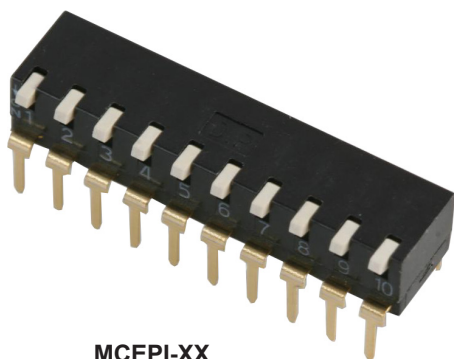


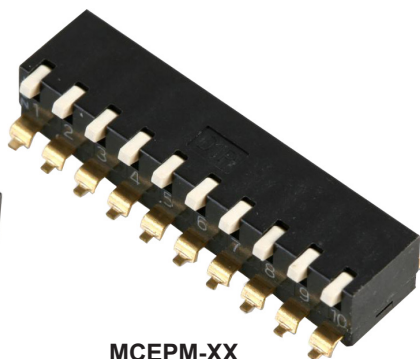
# Dual In Line Switches

## Piano Type

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MCEPI-XX



MCEPM-XX

### 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

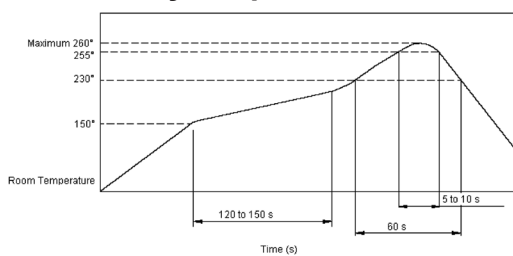
#### Electrical:

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.

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# Dual In Line Switches

## Piano Type

### Soldering Process

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

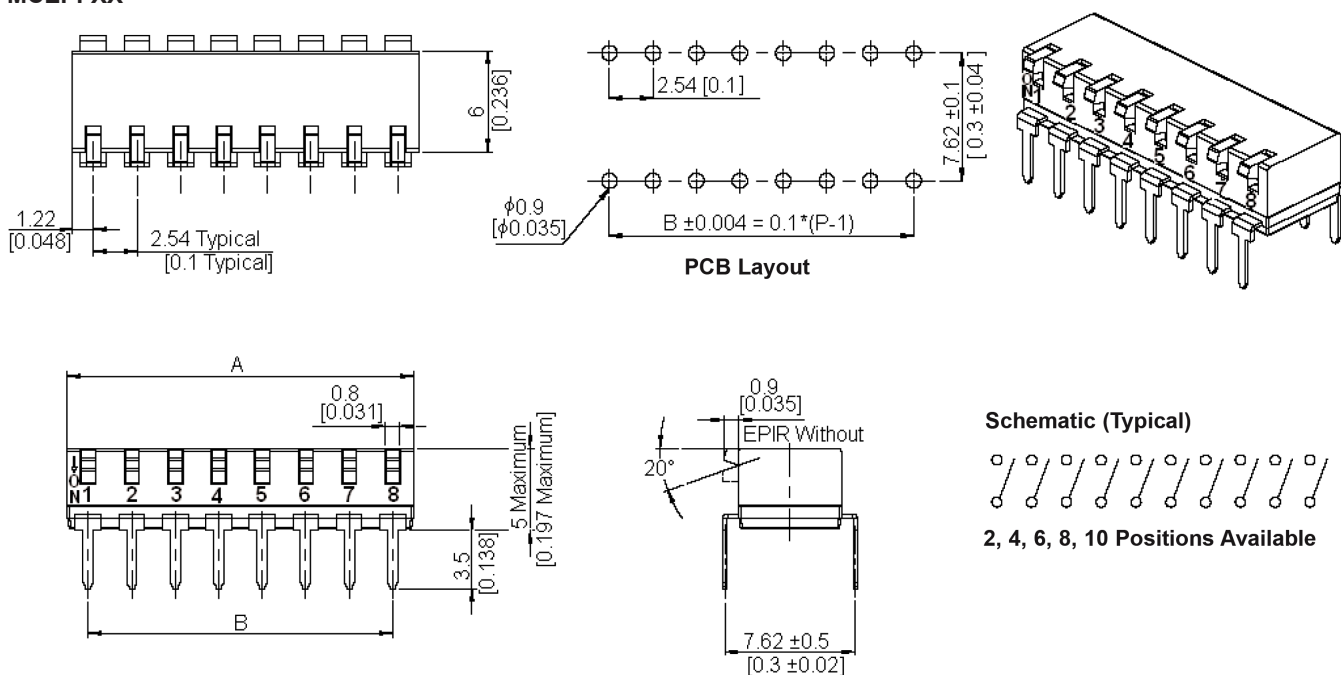
Hand soldering : Use a soldering iron of 30 watts, controlled at 350°C approximately maximum 5 seconds while applying

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

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

### Diagram

MCEPI-XX



### 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

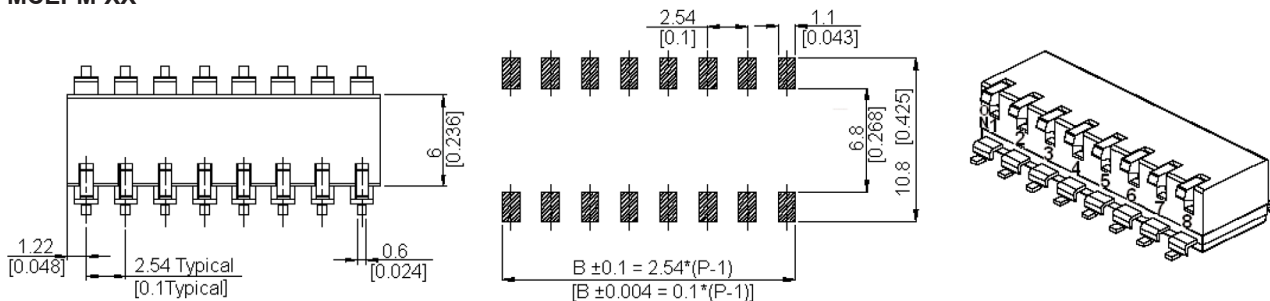
Dimensions : Millimetres (Inches)

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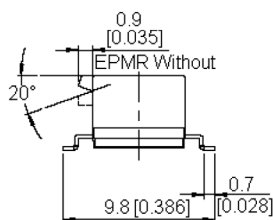
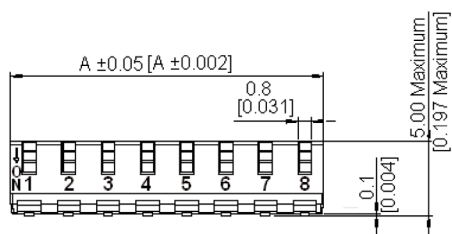
# Dual In Line Switches Piano Type

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## MCEPM-XX



### 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

### 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

Dimensions : Millimetres (Inches)

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