

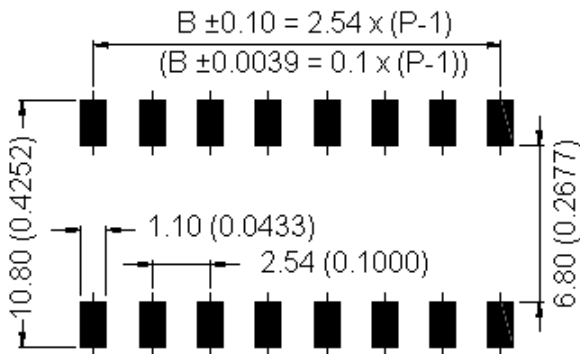
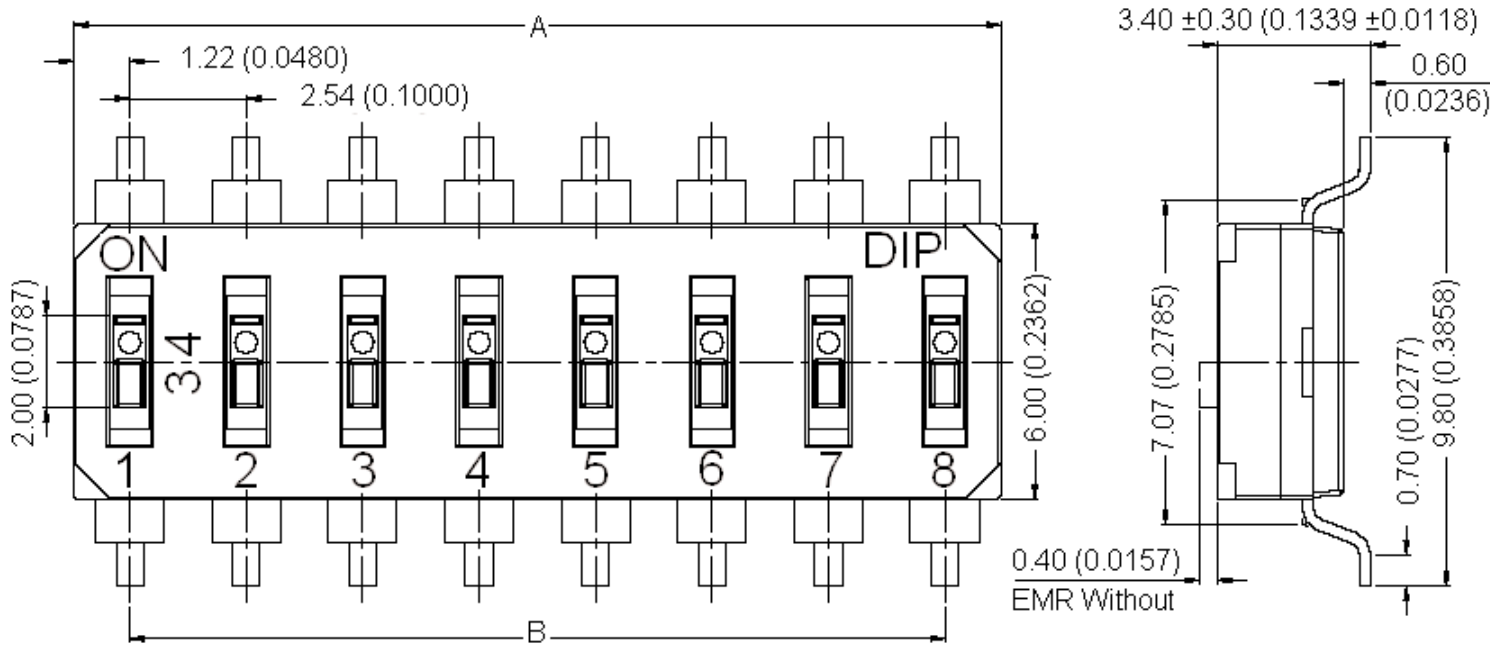


PART NO.

MCEMR Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Siva	07/3/08	Suresh	07/3/08	G. C	21/3/08



PCB Layout

Dimensions : Millimetres (Inches)

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DRAWN BY:	DATE:
Siva	07/03/08
CHECKED BY:	DATE:
Suresh	07/03/08
APPROVED BY:	DATE:
G.Cook	21/03/08

DRAWING TITLE:

Dual In Line Switches - End Stackable

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10000814	EI(M)R-V_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 1 OF 3	



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MCEMR Series

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**Specifications:**

**Mechanical:**

Mechanical life : 2,000 operations.  
 Maximum operating force : 1,000gf.  
 Stroke : 1.0mm.  
 Operating temperature : -20°C to +85°C.  
 Storage temperature : -40°C to +85°C.

**Electrical:**

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

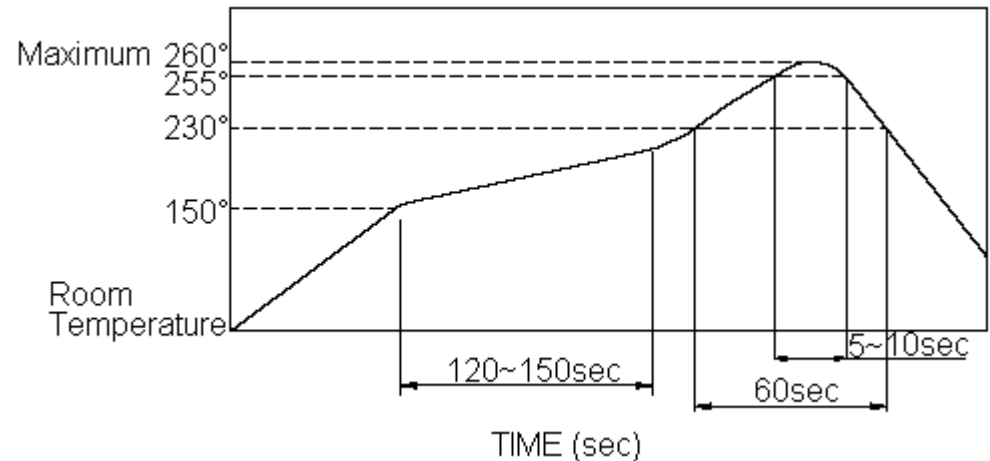
**Material:**

Base and cover : UL 94V-0 Nylon high temperature thermoplastic.  
 Colour : Black.  
 Actuator : UL 94V-0 LCP high temperature thermoplastic.  
 Colour : White.  
 Contact : Alloy copper with gold plated.  
 Terminal : Brass with gold plated.  
 Tape : Kapton.

**Soldering Process:**

**Wave soldering :** Recommended solder temperature at 500°F (260°C) maximum 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.

**Reflow Temperature Profile**



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Siva	07/03/08
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Suresh	07/03/08
<b>APPROVED BY:</b>	<b>DATE:</b>
G.Cook	21/03/08

**DRAWING TITLE:**

Dual In Line Switches - End Stackable

<b>SIZE</b> A	<b>DWG NO.</b> M10000814	<b>ELECTRONIC FILE</b> EI(M)R-V_DWG	<b>REV</b> A
<b>SCALE:</b> NTS		<b>U.O.M.:</b> mm (Inches)	<b>SHEET:</b> 2 OF 3



PART NO.

MCEMR Series

REVISIONS

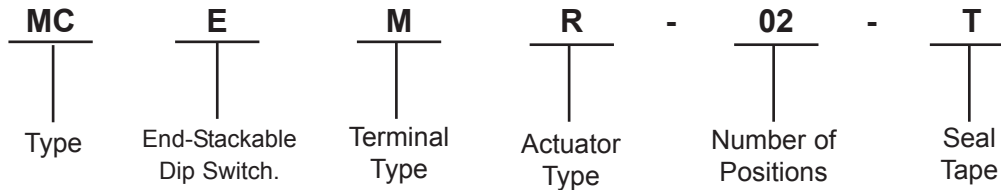
ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Siva	07/3/08	Suresh	07/3/08	G. C	21/3/08

Specifications Table

Number of Positions	A	B	Part Number
2	4.98 (0.196)	2.54 (0.100)	MCEMR-02-T
3	7.52 (0.296)	5.08 (0.200)	MCEMR-03-T
4	10.06 (0.396)	7.62 (0.300)	MCEMR-04-T
5	12.60 (0.496)	10.16 (0.400)	MCEMR-05-T
6	15.14 (0.596)	12.70 (0.500)	MCEMR-06-T
7	17.68 (0.696)	15.24 (0.600)	MCEMR-07-T
8	20.22 (0.796)	17.78 (0.700)	MCEMR-08-T
9	22.76 (0.896)	20.32 (0.800)	MCEMR-09-T
10	25.3 (0.996)	22.86 (0.900)	MCEMR-10-T
12	30.38 (1.196)	27.94 (1.100)	MCEMR-12-T

Dimensions: Millimetres (Inches)

Part Number Explanation



**Terminal Type** : M = SMT Type  
**Actuator Type** : R = Recessed Actuator  
**Number of Positions** : 02, 03, 04 05, 06, 07, 08, 09, 10, 12 Positions.  
**Seal Tape** : T = Top Tape Sealed (For Recessed Actuator only)

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

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	Siva	07/03/08				
	<b>CHECKED BY:</b>	<b>DATE:</b>	<b>SIZE</b>	<b>DWG NO.</b>	<b>ELECTRONIC FILE</b>	<b>REV</b>
	Suresh	07/03/08	A	M10000814	EI(M)R-V_DWG	A
<b>APPROVED BY:</b>	<b>DATE:</b>	<b>SCALE: NTS</b>		<b>U.O.M.: mm (Inches)</b>		<b>SHEET: 3 OF 3</b>
G.Cook	21/03/08					