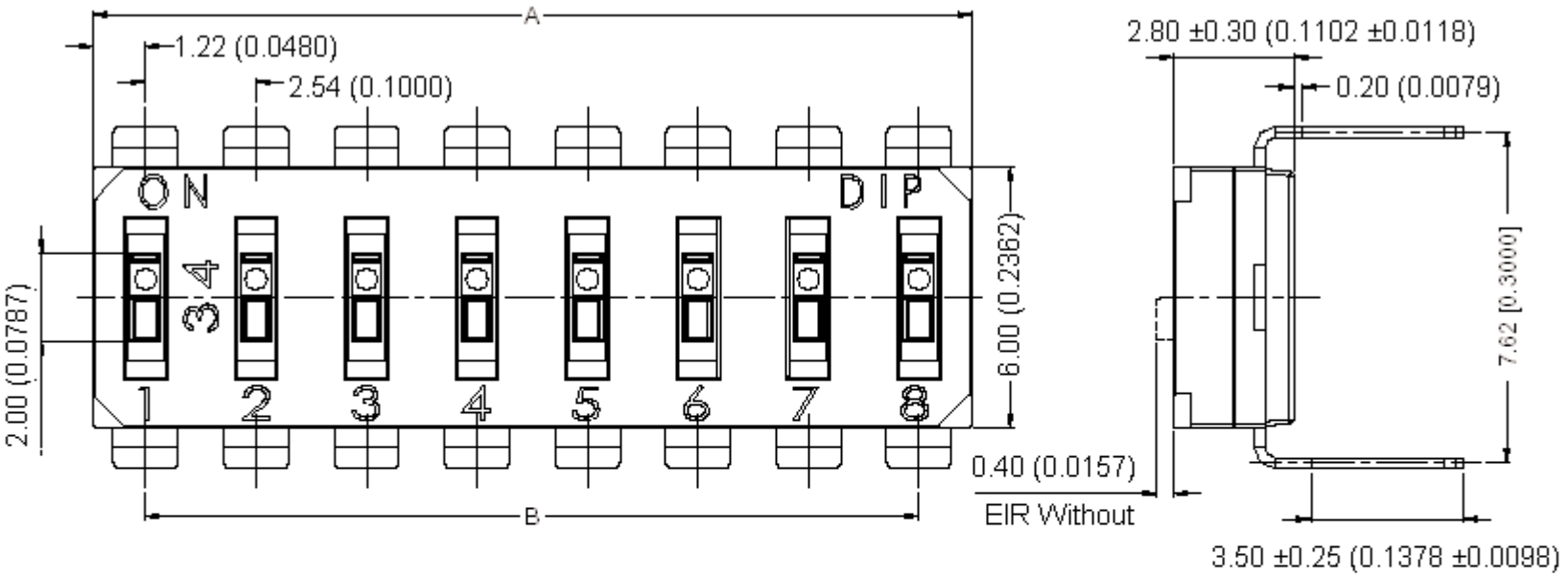
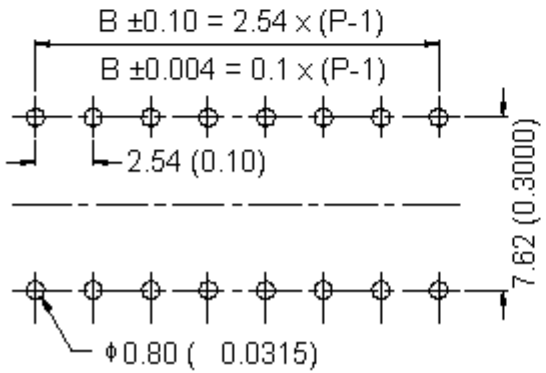
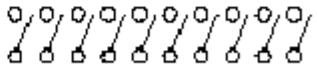
	PART NO.	REVISIONS								
multicomp	MCEI Series	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	A	RELEASED	Jagan	11/2/08	Suresh	11/2/08	G. C	26/2/08





PCB Layout

Schematic (Typical)



(1,2, 3, 4, 5, 6, 7, 8, 9, 10, 12 Positions Available)

Dimensions : Millimetres (Inches)

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TOLERANCES:

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DRAWN BY:	DATE:
Jagan	11/02/08
CHECKED BY:	DATE:
Suresh	11/02/08
APPROVED BY:	DATE:
G.Cook	26/02/08

DRAWING TITLE: Dual In Line Switches - End Stackable

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10000815	EI-EIR_DWG	A

SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 1 OF 5

multicomp	PART NO. MCEI Series	REVISIONS									
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	A	RELEASED	Jagan	11/2/08	Suresh	11/2/08	G. C	26/2/08

Specifications:

Mechanical:

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

Materials:

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.

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SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10000815	EI-EIR_DWG	A

SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 2 OF 5

PART NO.	REVISIONS								
MCEI Series	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
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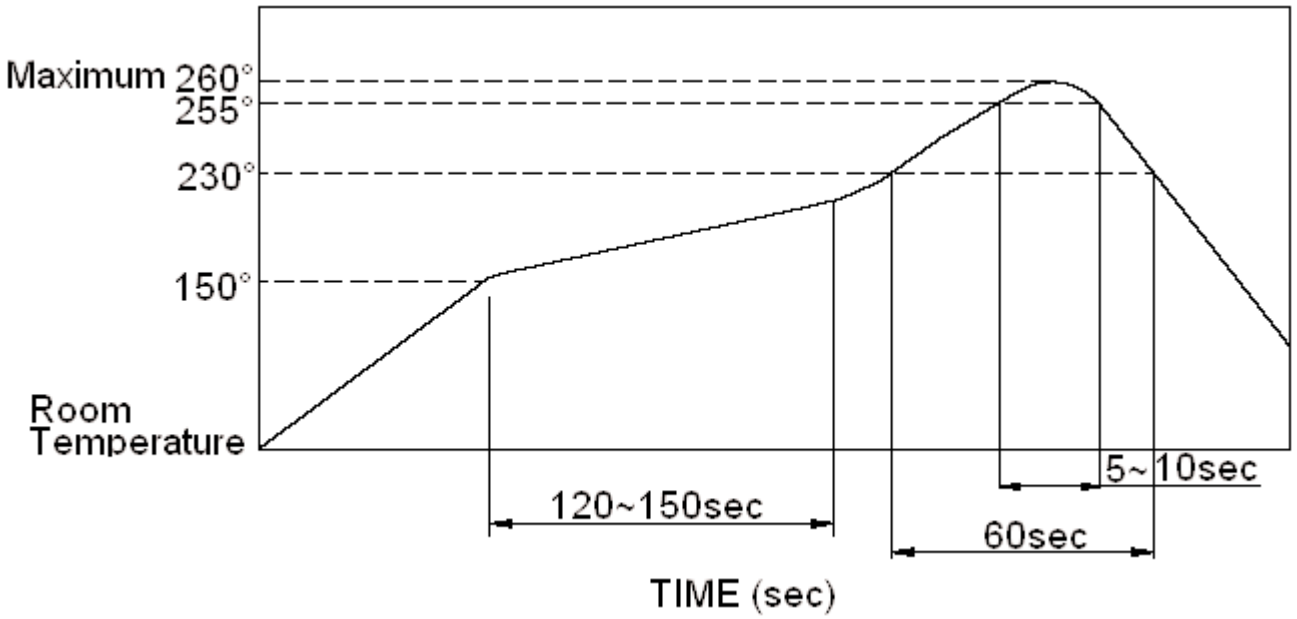

Reflow Temperature Profile

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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DRAWING TITLE: Dual In Line Switches - End Stackable

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10000815	EI-EIR_DWG	A

SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 3 OF 5

multicomp	PART NO. MCEI Series	REVISIONS									
		ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
		-	A	RELEASED	Jagan	11/2/08	Suresh	11/2/08	G. C	26/2/08

Specification Table

Number of Positions	Dimensions (A)	Dimensions (B)	Part Number
2	4.98 (0.196)	2.54 (0.100)	MCEI-02
3	7.52 (0.296)	5.08 (0.100)	MCEI-03
4	10.06 (0.396)	7.62 (0.300)	MCEI-04
5	12.60 (0.496)	10.16 (0.400)	MCEI-05
6	15.14 (0.596)	12.70 (0.500)	MCEI-06
7	17.68 (0.696)	15.24 (0.600)	MCEI-07
8	20.22 (0.796)	17.78 (0.700)	MCEI-08
9	22.76 (0.896)	20.32 (0.800)	MCEI-09
10	25.3 (0.996)	22.86 (0.900)	MCEI-10
12	3.0.38 (1.196)	27.94 (1.190)	MCEI-12
2	4.98 (0.196)	2.54 (0.100)	MCEIR-02
3	7.52 (0.296)	5.08 (0.100)	MCEIR-03
4	10.06 (0.396)	7.62 (0.300)	MCEIR-04
5	12.60 (0.496)	10.16 (0.400)	MCEIR-05
6	15.14 (0.596)	12.70 (0.500)	MCEIR-06
7	17.68 (0.696)	15.24 (0.600)	MCEIR-07
8	20.22 (0.796)	17.78 (0.700)	MCEIR-08
9	22.76 (0.896)	20.32 (0.800)	MCEIR-09
10	25.3 (0.996)	22.86 (0.900)	MCEIR-10
12	3.0.38 (1.196)	27.94 (1.190)	MCEIR-12

Dimensions : Millimetres (Inches)

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Suresh	11/02/08
APPROVED BY:	DATE:
G.Cook	26/02/08

DRAWING TITLE: Dual In Line Switches - End Stackable

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10000815	EI-EIR_DWG	A

SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 4 OF 5

PART NO.	REVISIONS								
MCEI Series	ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
	-	A	RELEASED	Jagan	11/2/08	Suresh	11/2/08	G. C	26/2/08

Part Number Explanation:

MC	E	I	R	-	02
Type	End-Stackable Dip Switch	Terminal Type	Actuator Type		Number of Positions

Terminal Type : I = Through Hole Type.
Actuator Type : R = Recessed Actuator.
☐ = Raised Actuator.
Number of Positions : 02, 03, 04, 05, 06, 07, 08, 09, 10, 12 Positions.

http://www.farnell.com

http://www.newark.com

http://www.cpc.co.uk

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SCALE: NTS | U.O.M.: mm (Inches) | SHEET: 5 OF 5