

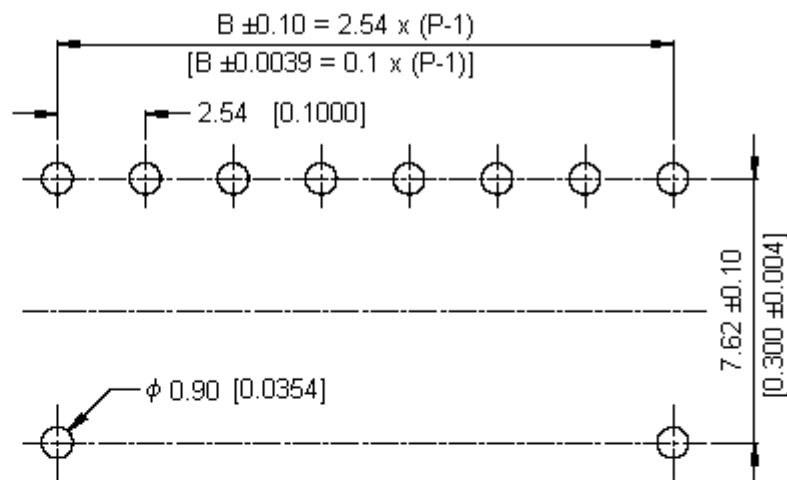
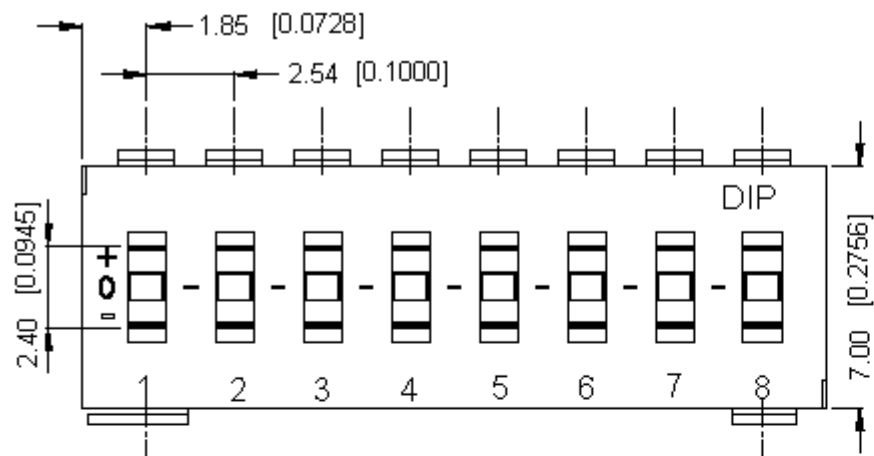


PART NO.

MCTI Series

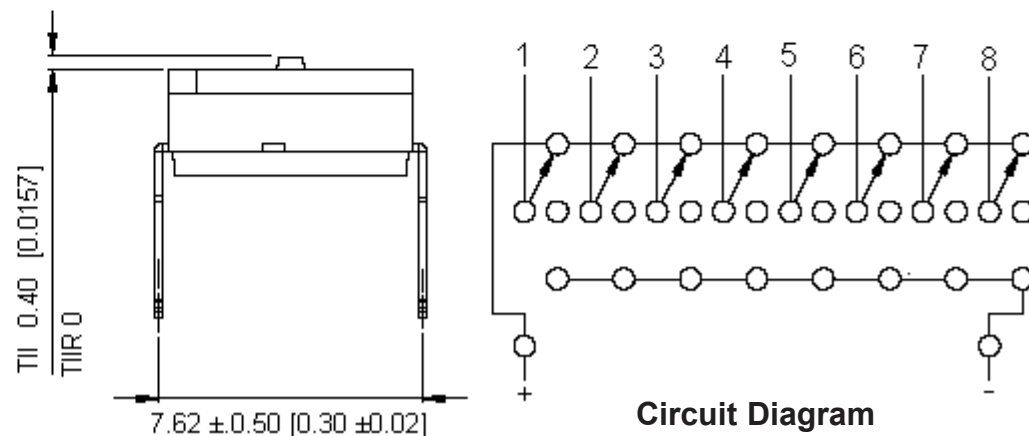
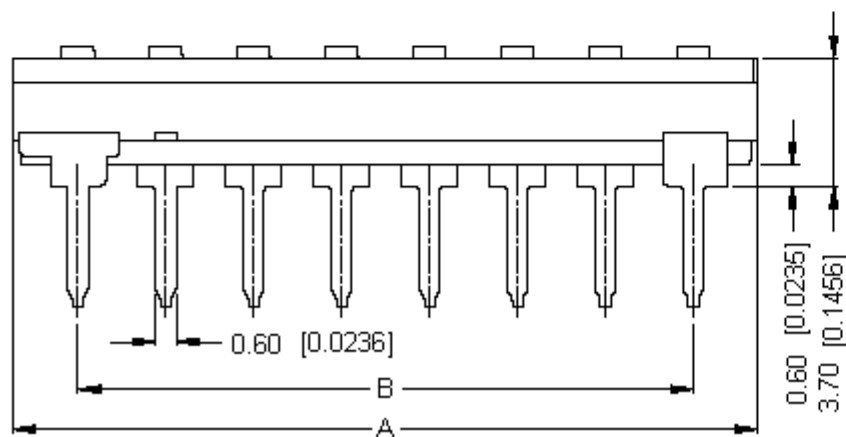
REVISIONS

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



MCTIIR

PCB Layout



Circuit Diagram

Dimensions : Millimetres (Inches)

TOLERANCES:

UNLESS OTHERWISE
SPECIFIED,
DIMENSIONS ARE
FOR REFERENCE
PURPOSES ONLY.

DRAWN BY:

Sumana

DATE:

07/03/08

CHECKED BY:

Suresh

DATE:

07/03/08

APPROVED BY:

G.Cook

DATE:

21/03/08

DRAWING TITLE:

Dual In Line Switches - Tri-State - IC Type

SIZE
A

DWG NO.

M10000827

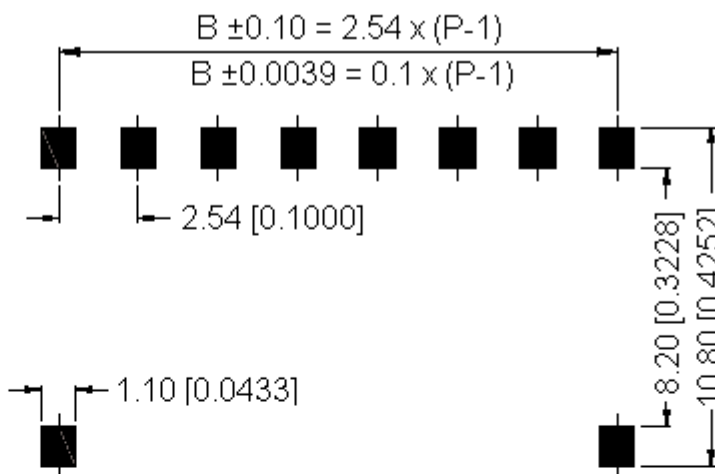
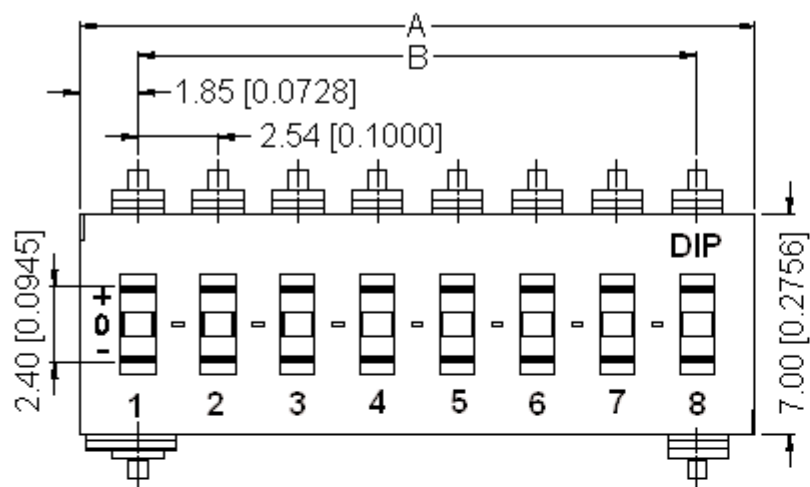
ELECTRONIC FILE
TII(M)R-V_DWGREV
A

SCALE: NTS

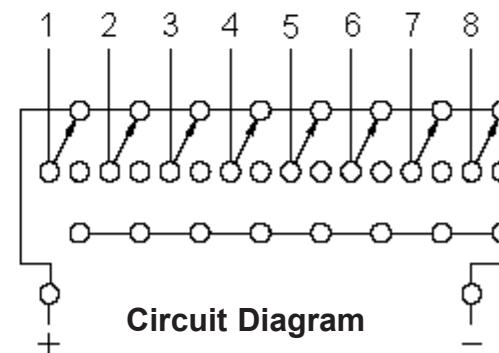
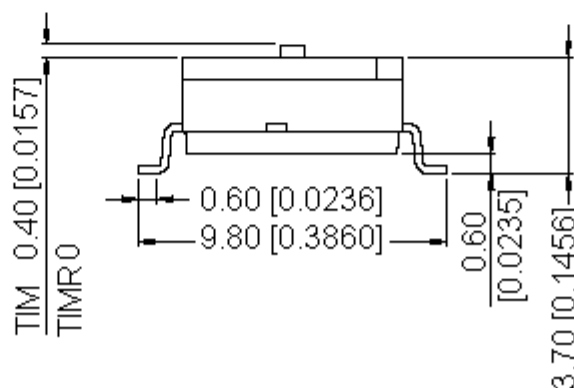
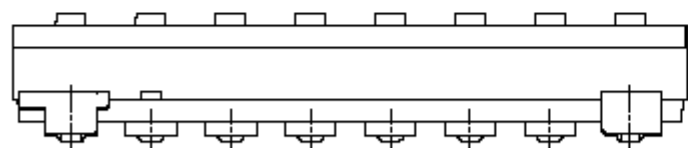
U.O.M.: mm (Inches)

SHEET: 1 OF 4

MCTIMR



PCB Layout



Circuit Diagram

Dimensions : Millimetres (Inches)

TOLERANCES:

UNLESS OTHERWISE
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DIMENSIONS ARE
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DRAWN BY:

Sumana

DATE:

07/03/08

CHECKED BY:

Suresh

DATE:

07/03/08

APPROVED BY:

G.Cook

DATE:

21/03/08

DRAWING TITLE:

Dual In Line Switches - Tri-State - IC Type

SIZE
A

DWG NO.

M10000827

ELECTRONIC FILE
TII(M)R-V_DWG

REV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 2 OF 4



PART NO.

MCTI Series

REVISIONS

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

Specifications:

Mechanical:

Mechanical life : 2,000 operations.
Maximum operating force : 1,000gf.
Stroke : 0.8mm.
Operating temperature : -20°C to +85°C.
Storage temperature : -40°C to +85°C.

Electrical:

Electrical life : 2,000 cycles.
Rating : 25mA, 24V dc.
Maximum contact resistance : 100mΩ.
Dielectric strength : 500V ac/1 minute.
Circuit : 3 switching positions.

Material:

Base and cover : UL 94V-0 Nylon high temperature thermoplastic.
Colour : Black.
Actuators : 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.

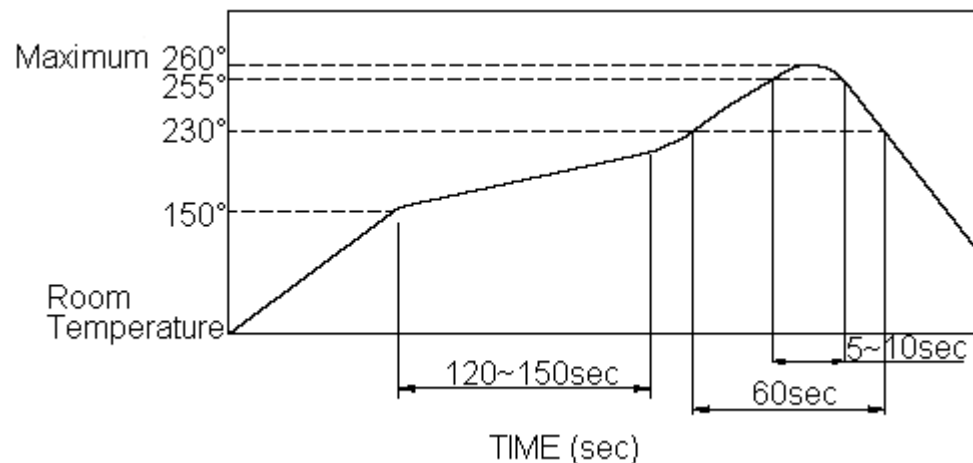
Hand soldering : Use a soldering iron of 30 watts, controlled at 350°C approximately maximum 5 seconds while applying.

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 body except top tape sealed type, which suitable for spray cleaning method from top of the s/w.

Any flux enters the switch may fail the conductivity.

Reflow Temperature Profile



TOLERANCES:

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DATE:

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Suresh

DATE:

07/03/08

APPROVED BY:

G.Cook

DATE:

21/03/08

DRAWING TITLE:

Dual In Line Switches - Tri-State - IC Type

SIZE
A

DWG NO.

M10000827

ELECTRONIC FILE
TII(M)R-V_DWGREV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 3 OF 4



PART NO.

MCTI Series

REVISIONS

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

Specifications Table

Number of Positions	A	B	Part Number
4	11.32 (0.446)	7.62 (0.300)	MCTIIR-04-T
8	21.48 (0.846)	17.78 (0.700)	MCTIIR-08-T
10	26.56 (1.046)	22.86 (0.900)	MCTIIR-10-T
4	11.32 (0.446)	7.62 (0.300)	MCTIMR-04
8	21.48 (0.846)	17.78 (0.700)	MCTIMR-08
10	26.56 (1.046)	22.86 (0.900)	MCTIMR-10

Dimensions: Millimetres (Inches)

Part Number Explanation

MC	TI	I	R	-	04	-	T
Type	Tri-state IC Type	Terminal Type	Actuator Type		Number of Positions		Seal

Terminal Type

: I = Through Hole Type.
M = SMT Type.

Actuator Type

: R = Recessed Actuator.

Number of Positions

: 04 = 4 Positions.
08 = 8 Positions.
10 = 10 Positions.

Seal

: ☐ = Without top tape.
T = Top tape sealed.
(For recessed actuator only)

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

TOLERANCES:

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DRAWN BY:

Sumana

DATE:

07/03/08

CHECKED BY:

Suresh

DATE:

07/03/08

APPROVED BY:

G.Cook

DATE:

21/03/08

DRAWING TITLE:

Dual In Line Switches - Tri-State - IC Type

SIZE

A

DWG NO.

M10000827

ELECTRONIC FILE

TII(M)R-V_DWG

REV

A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 4 OF 4