



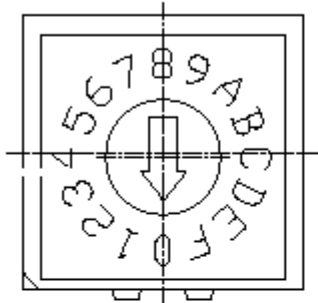
PART NO.

MCRH/RM Series

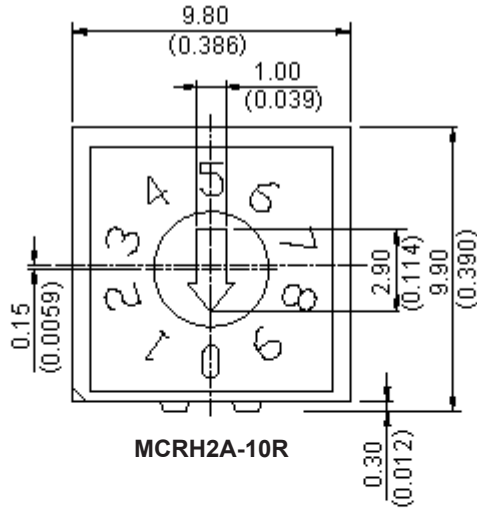
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Kiran	20/06/09	Suresh	20/06/09	Farnell	06/07/09

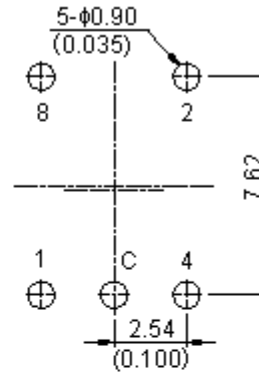
MCRH2



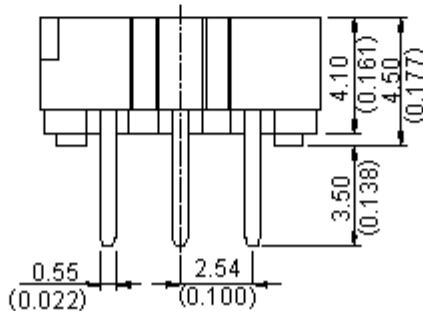
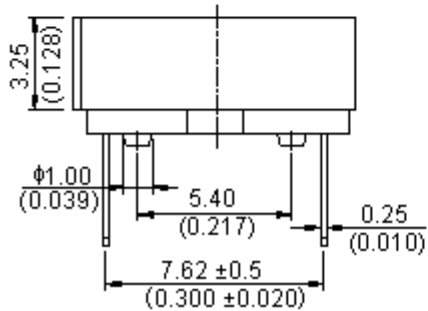
MCRH2A-16R



MCRH2A-10R



PCB Layout



Dimensions : Millimetres (Inches)

Truth Table

○ Real Code

Position	Code			
	1	2	4	8
0	●	●	●	●
1	○	●	●	●
2	●	○	●	●
3	○	○	●	●
4	●	●	○	●
5	○	●	○	●
6	●	○	○	●
7	○	○	○	●
8	●	●	●	○
9	○	●	●	○
A	●	○	●	○
B	○	○	●	○
C	●	●	○	○
D	○	●	○	○
E	●	○	○	○
F	○	○	○	○

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DRAWN BY:

Kiran

CHECKED BY:

Suresh

APPROVED BY:

Farnell

DATE:

20/06/09

DATE:

20/06/09

DATE:

06/07/09

DRAWING TITLE:

Rotary Switches - Dual In Line Type

SIZE
A

DWG NO.

M10002262

ELECTRONIC FILE
33007_DWG

REV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 1 OF 8



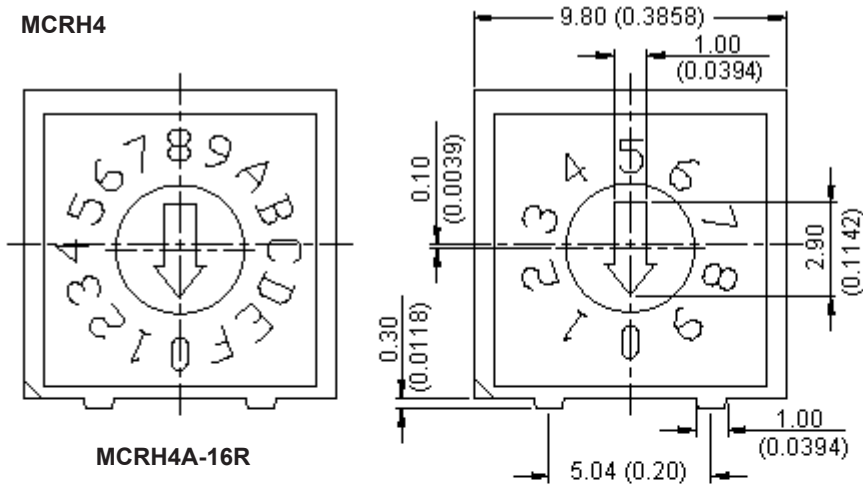
PART NO.

MCRH/RM Series

REVISIONS

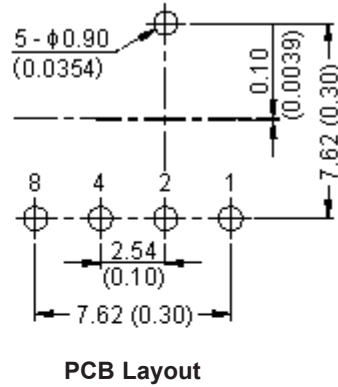
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-	A	RELEASED	Kiran	20/06/09	Suresh	20/06/09	Farnell	06/07/09

MCRH4

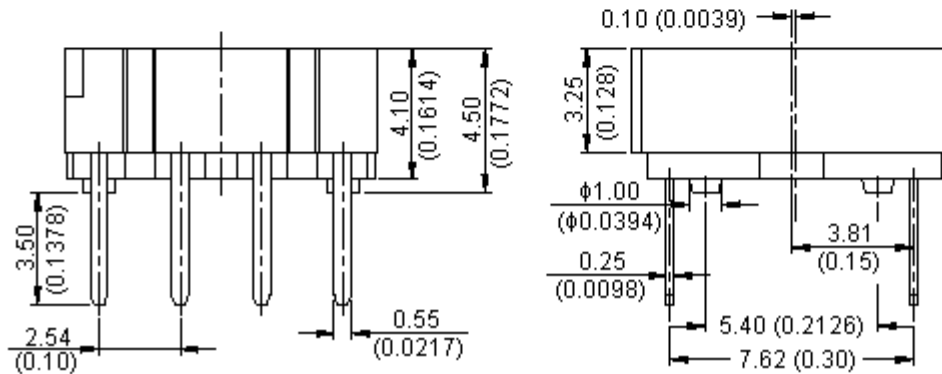


MCRH4A-16R

MCRH4A-10R



PCB Layout



Dimensions : Millimetres (Inches)

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Kiran

CHECKED BY:

Suresh

APPROVED BY:

Farnell

DATE:

20/06/09

DATE:

20/06/09

DATE:

06/07/09

DRAWING TITLE:

Rotary Switches - Dual In Line Type

SIZE
A

DWG NO.

M10002262

ELECTRONIC FILE
33007_DWG

REV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 2 OF 8



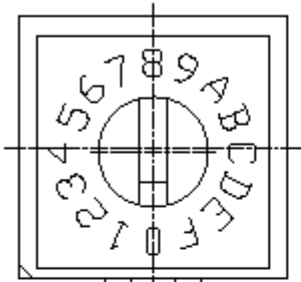
PART NO.

MCRH/RM Series

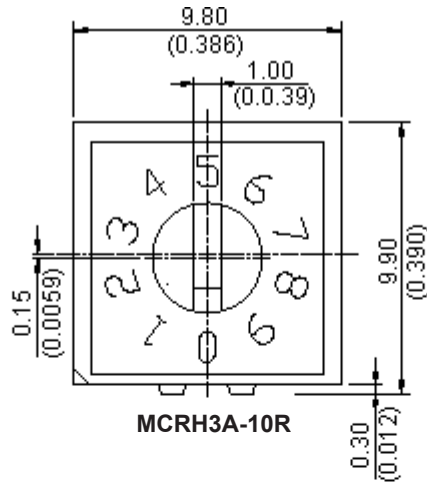
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Kiran	20/06/09	Suresh	20/06/09	Farnell	06/07/09

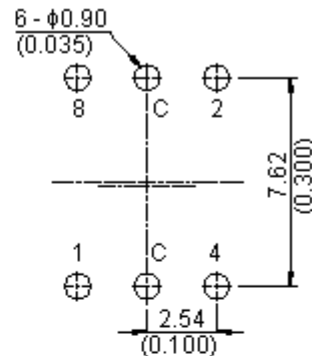
MCRH3



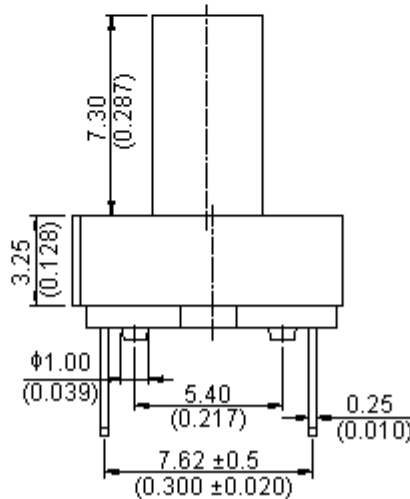
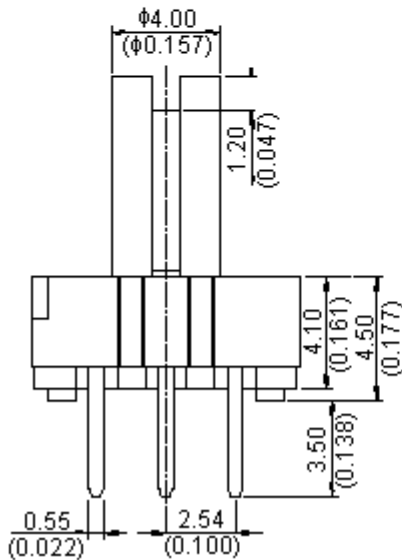
MCRH3A-16R



MCRH3A-10R



PCB Layout



Dimensions : Millimetres (Inches)

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Kiran	20/06/09
CHECKED BY:	DATE:
Suresh	20/06/09
APPROVED BY:	DATE:
Farnell	06/07/09

DRAWING TITLE:

Rotary Switches - Dual In Line Type

SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002262	33007_DWG	A
SCALE: NTS	U.O.M.: mm (Inches)	SHEET: 3 OF 8	



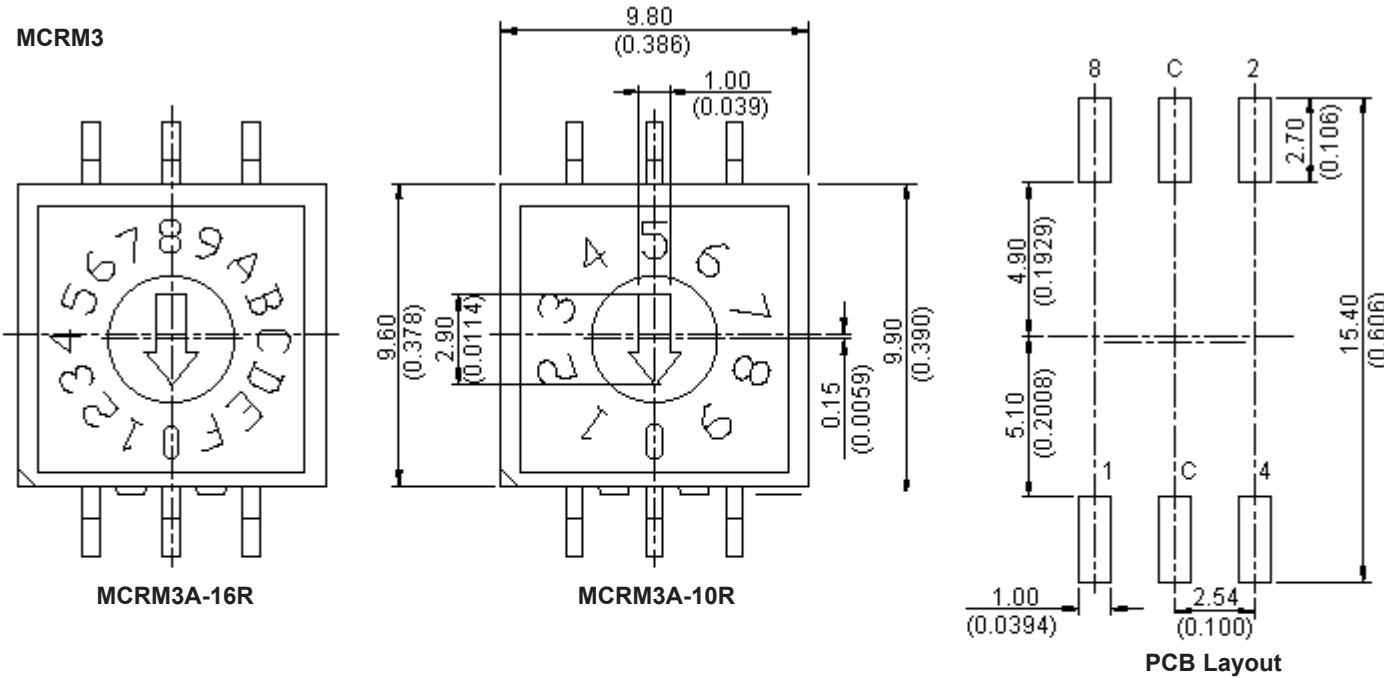
PART NO.

MCRH/RM Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Kiran	20/06/09	Suresh	20/06/09	Farnell	06/07/09

MCRM3



Dimensions : Millimetres (Inches)

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DRAWN BY:

Kiran

CHECKED BY:

Suresh

APPROVED BY:

Farnell

DATE:

20/06/09

DATE:

20/06/09

DATE:

06/07/09

DRAWING TITLE:

Rotary Switches - Dual In Line Type

SIZE
A

DWG NO.

M10002262

ELECTRONIC FILE
33007_DWG

REV
A

SCALE: NTS

U.O.M.: mm (Inches)

SHEET: 4 OF 8

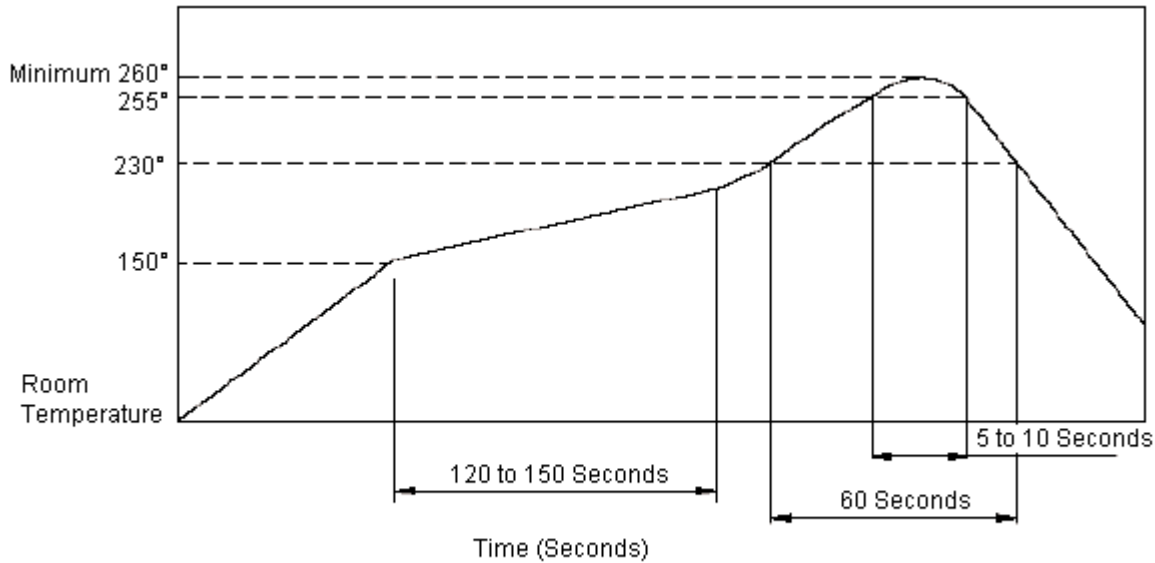


PART NO.

MCRH/RM Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Kiran	20/06/09	Suresh	20/06/09	Farnell	06/07/09



Reflow Temperature Profile

Soldering Process:

- Hand Soldering :** Use a soldering iron of 30 watts, controlled at (350°C) approximately maximum 5 seconds.
- Wave Soldering :** Recommended temperature at 500°F (260°C) maximum of 5 seconds (for through hole type).
- Reflow Soldering :** When applying reflow soldering, the peak temperature or the reflow oven should be set at 260°C maximum.

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Kiran	20/06/09
CHECKED BY:	DATE:
Suresh	20/06/09
APPROVED BY:	DATE:
Farnell	06/07/09

DRAWING TITLE:			
Rotary Switches - Dual In Line Type			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002262	33007_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 6 OF 8



PART NO.

MCRH/RM Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Kiran	20/06/09	Suresh	20/06/09	Farnell	06/07/09

Part Number Table

Description	Part Number
Rotary Dip Switch	MCRH4AF-10R
Rotary Dip Switch	MCRH3AF-10R
Rotary Dip Switch	MCRH2AF-10R
Rotary Dip Switch	MCRH4AF-16R
Rotary Dip Switch	MCRH3AF-16R
Rotary Dip Switch	MCRH2AF-16R
Rotary Dip Switch, SMD	MCRM4AF-10R
Rotary Dip Switch, SMD	MCRM3AF-10R
Rotary Dip Switch, SMD	MCRM2AF-10R
Rotary Dip Switch, SMD	MCRM4AF-16R
Rotary Dip Switch, SMD	MCRM3AF-16R
Rotary Dip Switch, SMD	MCRM2AF-16R

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Kiran	20/06/09
CHECKED BY:	DATE:
Suresh	20/06/09
APPROVED BY:	DATE:
Farnell	06/07/09

DRAWING TITLE:			
Rotary Switches - Dual In Line Type			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002262	33007_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 7 OF 8



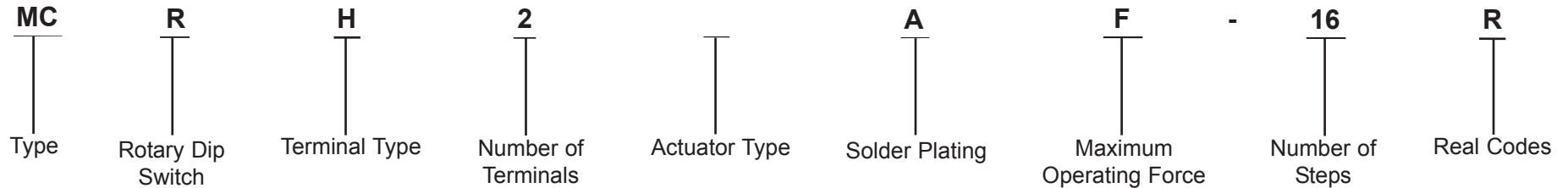
PART NO.

MCRH/RM Series

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Kiran	20/06/09	Suresh	20/06/09	Farnell	06/07/09

Part Number Explanation:



- Terminal Type** : H = Through Hole.
M = SMT.
- Number of Terminals** : 2 = 3 x 2
3 = 3 x 3
4 = 4 x 1.
- Actuator Type** : □ = Recessed Actuator.
- Solder Plating** : A = Terminal : Gold Plated Over Nickel.
- Maximum Operating Force** : 200gf cm.
- Number of Steps** : 10 = 10 Steps.
16 = 16 Steps.

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

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CHECKED BY:	DATE:
Suresh	20/06/09
APPROVED BY:	DATE:
Farnell	06/07/09

DRAWING TITLE:			
Rotary Switches - Dual In Line Type			
SIZE	DWG NO.	ELECTRONIC FILE	REV
A	M10002262	33007_DWG	A
SCALE: NTS		U.O.M.: mm (Inches)	SHEET: 8 OF 8