## Rotary Series



## Specifications

## Mechanical

Mechanical Life
Operating Force
: $200 \mathrm{~m} \Omega$ max. 20,000 steps
: 200gf-cm max.

## Environmental

Operating Temperature $:-25^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$
Storage Temperature : $-40^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}$

## Electrical

Electrical Life
Non-Switching Rating
Switching Rating
Contact Resistance

Insulation Resistance
Voltage Proof
: $200 \mathrm{~m} \Omega$ max. 20,000 steps
: $100 \mathrm{~mA}, 50 \mathrm{~V}$ DC
: 24 V DC, 25 mA
: (a) $100 \mathrm{~m} \Omega$ max. (initial)
(b) $200 \mathrm{~m} \Omega$ (final - after test)
: $100 \mathrm{M} \Omega \mathrm{min}$. at 250 V DC
: 250V AC for 1 min .

## Material

| Base \& Cover | : UL 94V - 0 High-temp Thermoplastic |
| :--- | :--- |
| Colour | : Black |
| Actuator | : UL 94V - 0 High-temp Thermoplastic |
| Colour | : White |
| Contact | : Alloy Copper with Gold Plated over Nickel |
| Terminal | : Brass with Gold Plated |



## Soldering Process

Hand Soldering
Wave Soldering

Reflow Soldering
: Use a soldering iron of 30 watts, controlled at $\left(350^{\circ} \mathrm{C}\right)$ approximately max 5 seconds.
: Recommended temperature at $500^{\circ} \mathrm{F}\left(260^{\circ} \mathrm{C}\right)$ max. 5 seconds. (For through hole type).
: When applying reflow soldering,the peak temperature of the reflow oven should be set to $260^{\circ} \mathrm{C}$ max.
www.element14.com
www.farnell.com
www.newark.com

## Rotary Series

Dimensions

## MCRH2


RH2A-16R



RH2A-16C



General Tolerance : $\mathbf{\pm 0 . 2 m m}$
MCRH4


General Tolerance : $\mathbf{\pm 0 . 2 m m}$
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www.farnell.com
www.newark.com

## Rotary Series

## MCRH3H




RH3HA-16C


General Tolerance : $\pm 0.2 \mathrm{~mm}$

## MCRV3



General Tolerance : $\mathbf{\pm 0 . 2 \mathrm { mm }}$
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## Rotary Series

multicomp

MCRV4


General Tolerance : $\pm 0.2 \mathrm{~mm}$

MCRM3


General Tolerance : $\pm 0.2 \mathrm{~mm}$

## Rotary Series

multicomp

MCRH3M


General Tolerance : $\mathbf{\pm 0 . 2 \mathrm { mm }}$

## MCRS2



## General Tolerance : $\pm 0.2 \mathrm{~mm}$

## Rotary Series

MCRH TUBE


General Tolerance : $\pm 0.2 \mathrm{~mm}$

## MCRV TUBE



General Tolerance : $\mathbf{\pm 0 . 2 \mathrm { mm }}$

## Rotary Series

MCRH-H TUBE


General Tolerance : $\pm 0.2 \mathrm{~mm}$
MCRV-H TUBE


## General Tolerance : $\pm 0.2 \mathrm{~mm}$

MCRM


General Tolerance : $\pm 0.2 \mathrm{~mm}$
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www.newark.com

## Rotary Series

## multicomp

## MCRM-H



General Tolerance : $\pm 0.2 \mathrm{~mm}$

## MCRM3 REEL



General Tolerance : $\pm 0.1 \mathrm{~mm}$

## Rotary Series

MCRM4 REEL


## Part Explanation:



## Part Number Table

| Description | Part Number |
| :---: | :---: |
| Switch, Rotary, THT, $10 \times 10,10$ POS, $3 \times 2$ | MCRH2HAF-10R-V-B |
| Switch, Rotary, THT, $10 \times 10,16$ POS, $3 \times 2$ | MCRH2HAF-16R-V-B |
| Switch, Rotary, THT, $10 \times 10,10$ POS, $3 \times 3$ | MCRH3HAF-10R-V-B |
| Switch, Rotary, THT, $10 \times 10,16$ POS, $3 \times 3$ | MCRH3HAF-16R-V-B |


| Description | Part Number |
| :---: | :---: |
| Switch, Rotary, THT, 10×10, 10 POS, $4 \times 1$ | MCRH4HAF-10R-V-B |
| Switch, Rotary, THT, 10×10, 16 POS, $4 \times 1$ | MCRH4HAF-16R-V-B |
| Switch, Rotary, THT, 10×10, 10 POS, $3 \times 2$ | MCRH2MAF-10R-V-B |
| Switch, Rotary, THT, $10 \times 10,16$ POS, $3 \times 2$ | MCRH2MAF-16R-V-B |
| Switch, Rotary, THT, $10 \times 10,10$ POS, $3 \times 3$ | MCRH3MAF-10R-V-B |
| Switch, Rotary, THT, $10 \times 10,16$ POS, $3 \times 3$ | MCRH3MAF-16R-V-B |
| Switch, Rotary, SMD, 10×10, 10 POS, $3 \times 2$ | MCRM2HAF-10R-V-B |
| Switch, Rotary, SMD, $10 \times 10,16$ POS, $3 \times 2$ | MCRM2HAF-16R-V-B |
| Switch, Rotary, SMD, $10 \times 10,10$ POS, $3 \times 3$ | MCRM3HAF-10R-V-B |
| Switch, Rotary, SMD, $10 \times 10,16$ POS, $3 \times 3$ | MCRM3HAF-16R-V-B |
| Switch, Rotary, SMD, $10 \times 10,10$ POS, $4 \times 1$ | MCRM4HAF-10R-V-B |
| Switch, Rotary, SMD, $10 \times 10,16$ POS, $4 \times 1$ | MCRM4HAF-16R-V-B |
| Switch, Rotary, SMD, $10 \times 10,10$ POS, $3 \times 2$ | MCRM2MAF-10R-V-B |
| Switch, Rotary, SMD, $10 \times 10,16$ POS, $3 \times 2$ | MCRM2MAF-16R-V-B |
| Switch, Rotary, SMD, $10 \times 10,10$ POS, $3 \times 3$ | MCRM3MAF-10R-V-B |
| Switch, Rotary, SMD, $10 \times 10,16$ POS, $3 \times 3$ | MCRM3MAF-16R-V-B |
| Switch, Rotary, R/A, 10×10, 10 POS, $3 \times 2$ | MCRV2AF-10R-V-B |
| Switch, Rotary, R/A, 10×10, 16 POS, $3 \times 2$ | MCRV2AF-16R-V-B |
| Switch, Rotary, R/A, 10×10, 10 POS, $3 \times 3$ | MCRV3AF-10R-V-B |
| Switch, Rotary, R/A, $10 \times 10,16$ POS, $3 \times 3$ | MCRV3AF-16R-V-B |
| Switch, Rotary, R/A, 10×10, 10 POS, $4 \times 1$ | MCRV4AF-10R-V-B |
| Switch, Rotary, R/A, $10 \times 10,16$ POS, $4 \times 1$ | MCRV4AF-16R-V-B |
| Switch, Rotary, KINK, $10 \times 10,10$ POS, $3 \times 2$ | MCRS2AF-10R-V-B |
| Switch, Rotary, KINK, $10 \times 10,16$ POS, $3 \times 2$ | MCRS2AF-16R-V-B |
| Switch, Rotary, KINK, $10 \times 10$, 10 POS, $3 \times 3$ | MCRS3AF-10R-V-B |
| Switch, Rotary, KINK, $10 \times 10,16$ POS, $3 \times 3$ | MCRS3AF-16R-V-B |
| Switch, Rotary, KINK, $10 \times 10,10$ POS, $4 \times 1$ | MCRS4AF-10R-V-B |
| Switch, Rotary, KINK, $10 \times 10$, 16 POS, $4 \times 1$ | MCRS4AF-16R-V-B |

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