MCRJ Series

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RoHS Compliant

Specifications

Mechanical

Operating Force	: 200gf-cm max.

Environmental

Operating Temperature	: -40°C to +85°C
Storage Temperature	: -40°C to +85°C

Electrical

Electrical Life	: 20,000 steps
Switching Rating	: 24V DC, 25mA
Contact Resistance	: (a) 100mΩ max. (initial)
	(b) 200mΩ (final – after test)
Insulation Resistance	: 100MΩ min. at 250V DC
Voltage Proof	: 250V AC for 1 minute

Material

Base	: UL 94V-0 High-temp Thermoplastic
Colour	: Black
Actuator	: UL 94V-0 High-temp Thermoplastic
Colour	: White
Contact	: Alloy Copper with Gold Plated
Terminal	: Brass with Gold Plated
Cover	: Stainless Steel
Seal	: Silicone Rubber
Colour	: Red
Spring Plate	: Stainless Steel

Max 260°
255°
230°
150°
Room Temperature

120 ~ 150sec
60sec
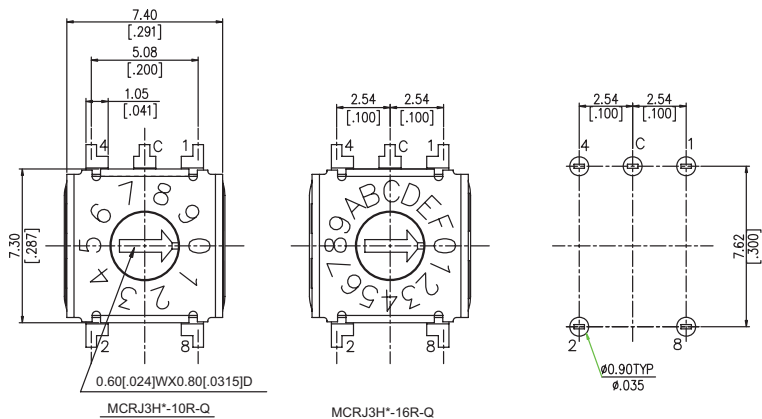5 ~ 10sec

Time(sec)
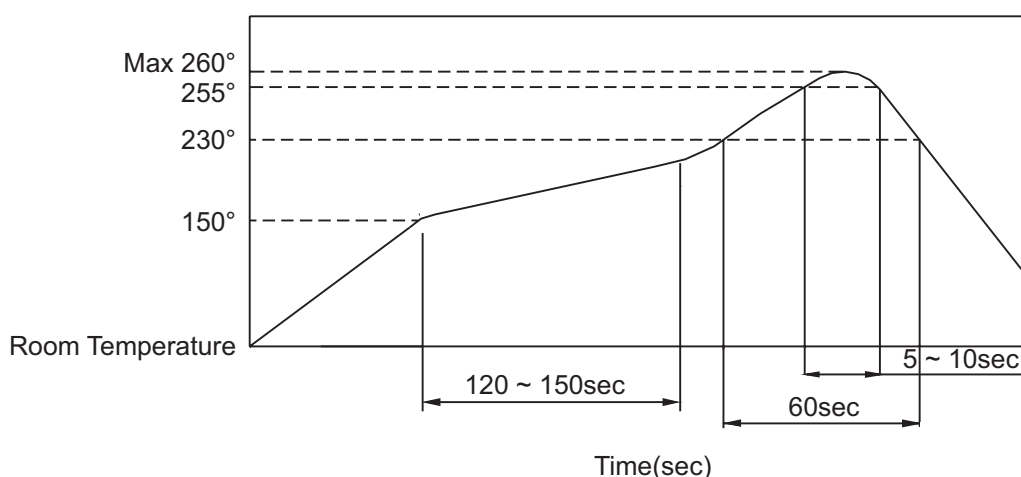
Soldering process

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

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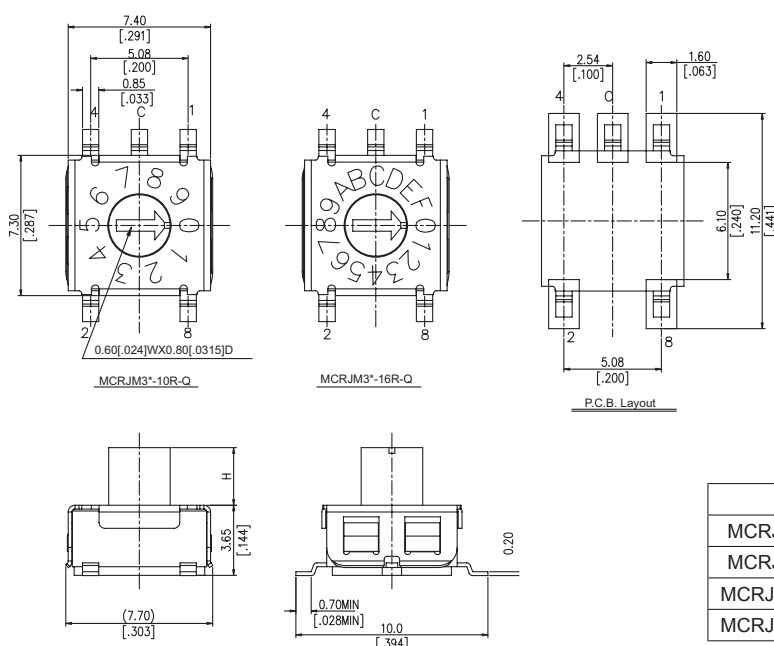www.newark.com

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MCRJ Series

Dimensions

MCRJH3 Series

MCRJ3H*-10R-Q

MCRJ3H*-16R-Q

0.60[.024]WX0.80[.0315]D

Ø0.90TYP
Ø.035

3.20 [.126]

9.35±0.3 [.368±0.012]

Name	H
MCRJH3-10R-Q	
MCRJH3-16R-Q	0
MCRJH3H-10R-Q	
MCRJH3H-16R-Q	3.00 [.1181]

Circuit Chart

		CODE			
TYPE	POSITION □□R	1	2	4	8
10 STEP	0	●	●	●	●
	1	○	●	●	●
	2	●	○	●	●
	3	○	○	●	●
	4	●	●	○	●
	5	○	●	○	●
	6	●	○	○	●
	7	○	○	○	●
	8	●	●	●	○
	9	○	●	●	○
16 STEP	A	●	○	●	○
	B	○	○	●	○
	C	●	●	○	○
	D	○	●	○	○
	E	●	○	○	○
	F	○	○	○	○

○ ON
● OFF

General Tolerance : ±0.2mm

MCRJM3 Series

MCRJM3*-10R-Q

MCRJM3*-16R-Q

0.60[.024]WX0.80[.0315]D

P.C.B. Layout

5.08 [.200]

2.54 [.100]

1.60 [.063]

0.70MIN [.028MIN]

10.0 [.394]

Name	H
MCRJM3-10R-Q	
MCRJM3-16R-Q	0
MCRJM3H-10R-Q	
MCRJM3H-16R-Q	3.00 [.1181]

Circuit Chart

		CODE			
TYPE	POSITION □□R	1	2	4	8
10 STEP	0	●	●	●	●
	1	○	●	●	●
	2	●	○	●	●
	3	○	○	●	●
	4	●	●	○	●
	5	○	●	○	●
	6	●	○	○	●
	7	○	○	○	●
	8	●	●	●	○
	9	○	●	●	○
16 STEP	A	●	○	●	○
	B	○	○	●	○
	C	●	●	○	○
	D	○	●	○	○
	E	●	○	○	○
	F	○	○	○	○

○ ON
● OFF

General Tolerance : ±0.2mm

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MCRJH Type Tube

7.90
+0.15X
−0.00X

4.00
+0.15X
−0.00X

1.50

8.80

3.80

11.20

General Tolerance : ±0.2mm

MCRJH3H Type Tube

7.80 +0.15 −0.00

7.00
+0.15X
−0.00X

11.80

6.20

4.60

11.20

General Tolerance : ±0.2mm

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MCRJ Series

MCRJM Type Tube

7.80
+0.15X
−0.00X

2.40

4.00
+0.15X
−0.00X

0.80

5.00

11.40
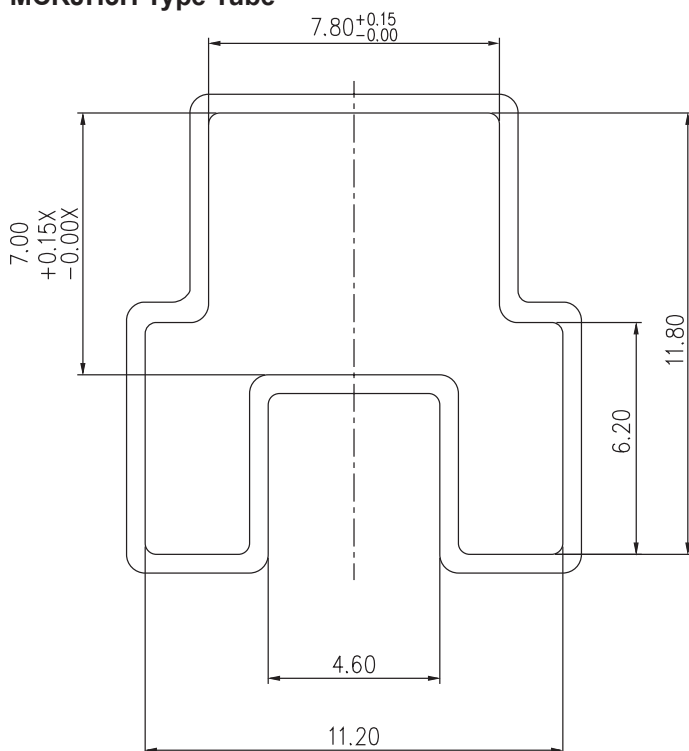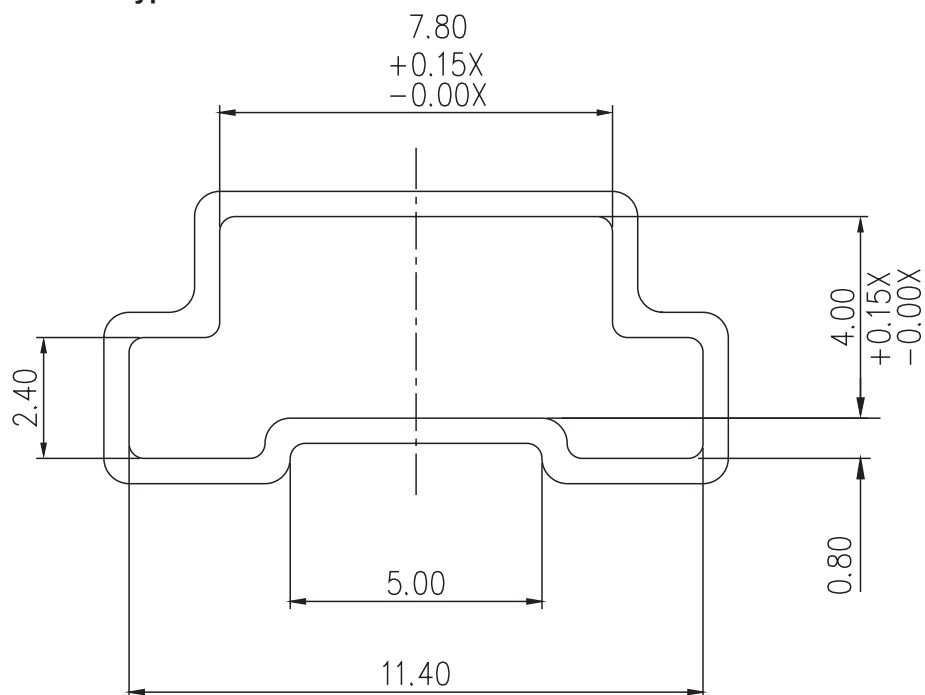
General Tolerance : ±0.2mm

MCRJM3H Type Tube

7.80 +0.15
−0.00

2.40

7.00 +0.15
−0.00

0.80

5.00

11.40

General Tolerance : ±0.2mm

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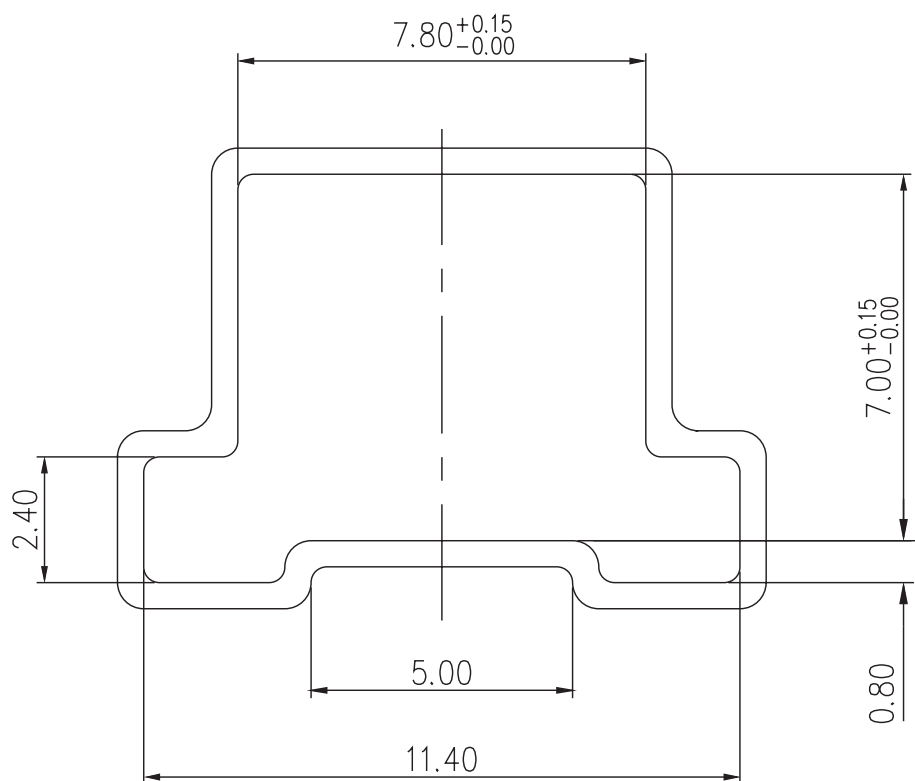
Part Number Table

Description	Part Number
Switch, Rotary, SMD, 7×7, 10 POS, 3×2	MCRJM3-10R-Q
Switch, Rotary, SMD, 7×7, 16 POS, 3×2	MCRJM3-16R-Q
Switch, Rotary, SMD, 7×7, 10 POS, 3×2	MCRJM3H-10R-Q
Switch, Rotary, SMD, 7×7, 16 POS, 3×2	MCRJM3H-16R-Q
Switch, Rotary, THT, 7×7, 10 POS, 3×2	MCRJH3-10R-Q
Switch, Rotary, THT, 7×7, 16 POS, 3×2	MCRJH3-16R-Q
Switch, Rotary, THT, 7×7, 10 POS, 3×2	MCRJH3H-10R-Q
Switch, Rotary, THT, 7×7, 16 POS, 3×2	MCRJH3H-16R-Q

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