

Ultraminiature Rocker and Lever Switches **multicomp**PRO



Specifications

Contact Rating : 0.4 Volt-Amps (VA) Max. at 20V AC or DC Max.
 Mechanical Life : 50,000 make-and-break cycles.
 Contact Resistance : Below 100mΩ typical at 2 to 4V DC, 100mA
 Min. Insulation Resistance : 500MΩ at 500V DC
 Dielectric Strength : 500V RMS at sea level
 Operating Temperature : -30°C to 85°C

Materials:

Actuator : Nylon, black std.
 Internal O-ring seal standard with all actuators
 Case and Bushing : Glass filled nylon 6/6, heat stabilized
 Switch Support : Brass or steel, tin plated
 Contacts / Terminals : Silver or gold plated copper alloy

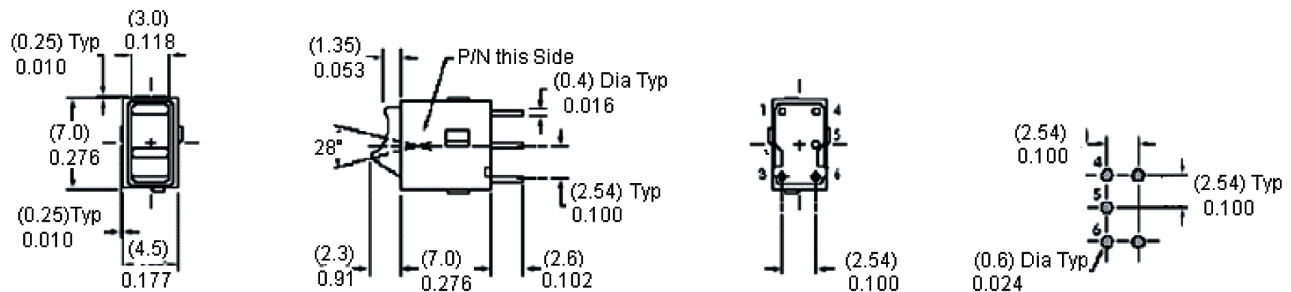
Switch Function

Number of Poles	Model Number	Switch Function			Connected Terminals / Schematic		
		Position 1	Position 2	Position 3	Position 1	Position 2	Position 3
SP	4US1						
DP	4UD1	On	None	On		Open	

Pole Options

M2RN

Single Pole



Dimensions : Millimetres (Inches)

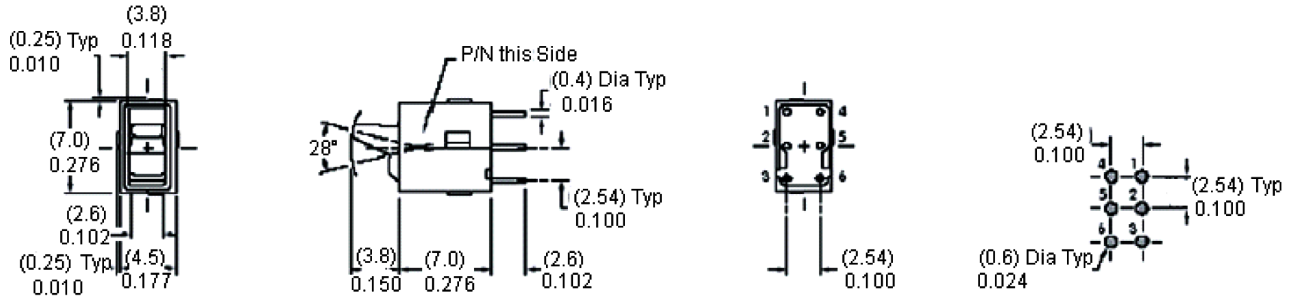
Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro

multicompPRO

Ultraminiature Rocker and Lever Switches **multicomp** PRO

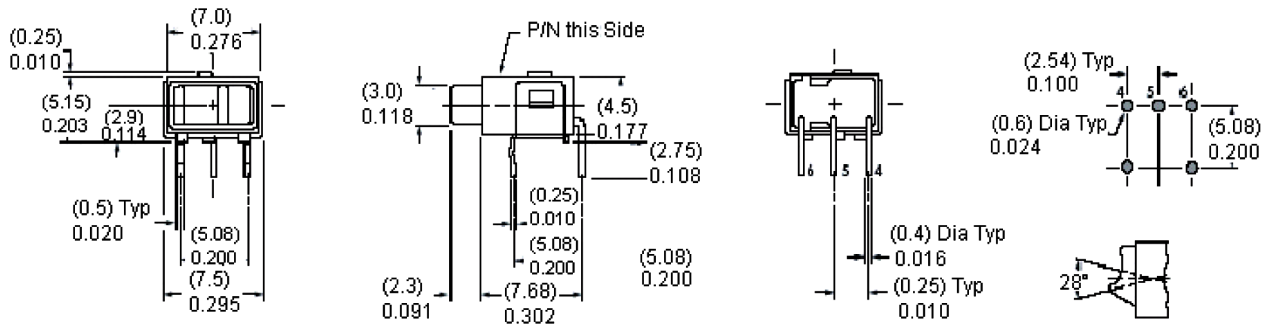
M2RN

Double Pole



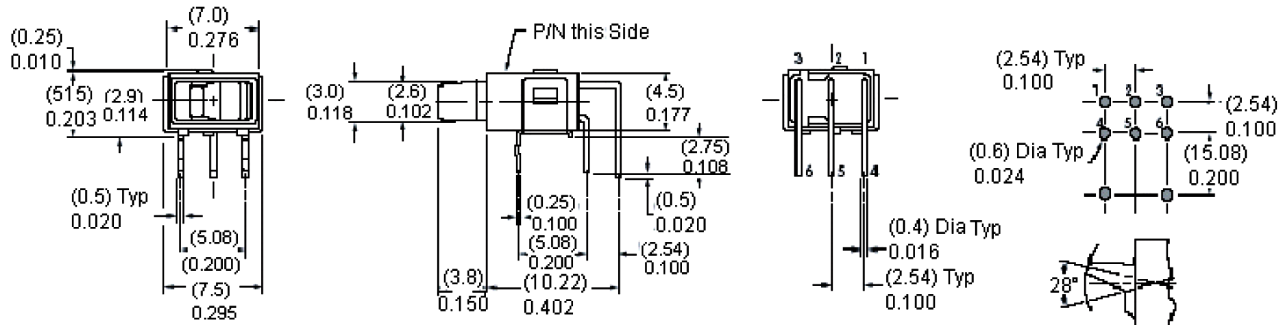
M6RN

Single Pole



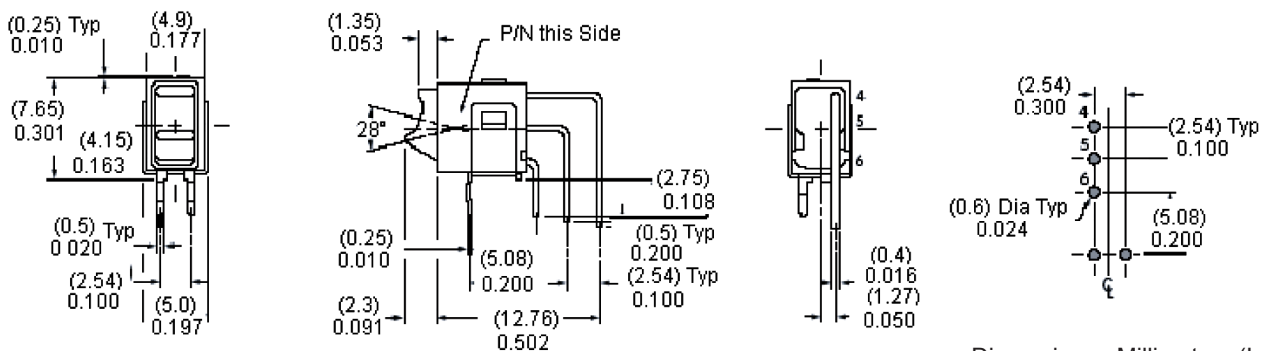
M6RN

Double Pole



M7RN

Single Pole



Dimensions : Millimetres (Inches)

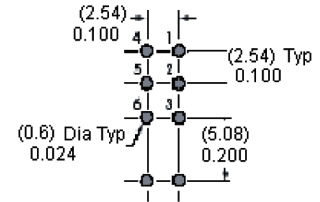
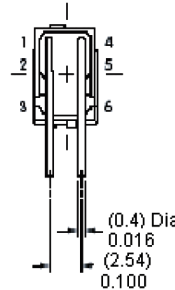
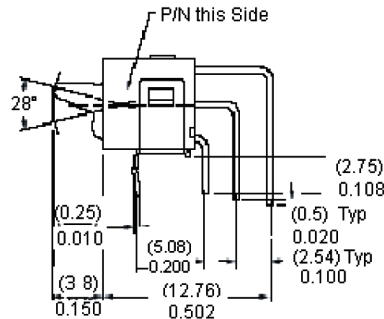
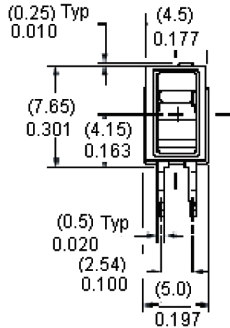
Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro

multicomp PRO

Ultraminiature Rocker and Lever Switches **multicomp** PRO

M7RN

Double Pole



Dimensions : Millimetres (Inches)

Soldering Process

Manual Soldering : Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

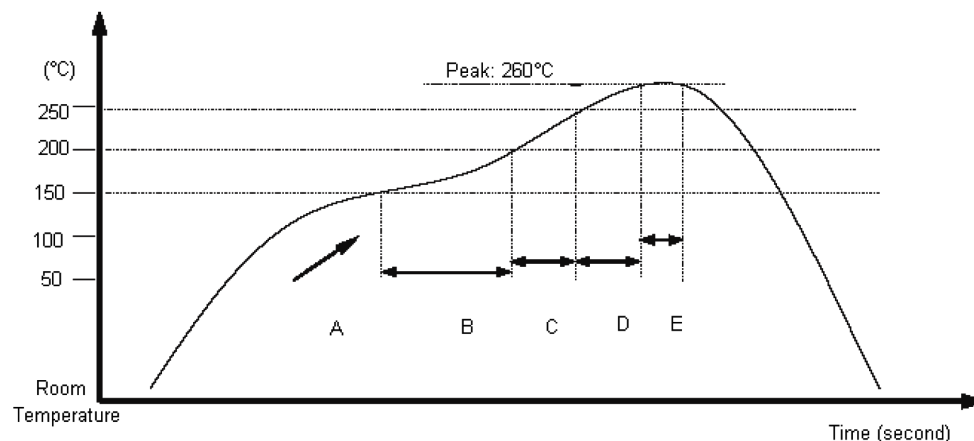
Wave Soldering

Recommended soldering temperature : 260 ±5°C.

Duration of solder immersion: 5 ±1 seconds (PCB is 1.6mm in thickness).

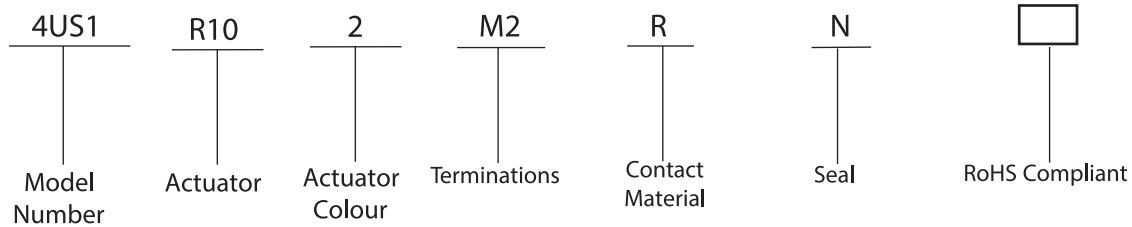
Soldering : Vapour phase

Temperature Profile		
Zone	Room Temperature (°C)	Time (Seconds)
Pre-heat (A)	150°C	Minimum 120
Soak (B)	180°C to 200°C	Minimum 150
Peak (C)	200°C to 235°C	Minimum 30
Peak (D)	235°C to 260°C	Minimum 40
Peak (E)	260°C	Maximum 10



Ultraminiature Rocker and Lever Switches **multicomp** PRO

Part Number Explanation



- Model Number : 4US1 = SP On-None-On and 4UD1 = DP On-None-On.
- Actuator : R10 = Rocker (std) and R20 = Lever (std).
- Actuator Colour : 02 = Colour: Black (std) and Pantone: Black C.
- Terminations : M2 = PC Through Hole and M6 = Right Angle PC Through Hole and M7 = Vertical Right Angle PC Through Hole.
- Contact Material : R = Gold.
- Seal : N = No Epoxy.

Part Number Table

Description	Part Number
Switch, Rocker, Sub-Miniature, SPDT, On-On	4US1R102M2RN
Switch, Rocker, Sub-Miniature, DPDT, On-On	4UD1R102M2RN
Switch, Rocker, Sub-Miniature, Horizontal R/A, SPDT, On-On	4US1R102M6RN
Switch, Rocker, Sub-Miniature, Horizontal R/A, DPDT, On-On	4UD1R102M6RN
Switch, Rocker, Sub-Miniature, Vertical R/A, SPDT, On-On	4US1R102M7RN
Switch, Rocker, Sub-Miniature, Vertical R/A, DPDT, On-On	4UD1R102M7RN
Switch, Lever, Sub-Miniature, SPDT, On-On	4US1R202M2RN
Switch, Lever, Sub-Miniature, DPDT, On-On	4UD1R202M2RN
Switch, Lever, Sub-Miniature, Horizontal R/A, SPDT, On-On	4US1R202M6RN
Switch, Lever, Sub-Miniature, Horizontal R/A, DPDT, On-On	4UD1R202M6RN
Switch, Lever, Sub-Miniature, Vertical R/A, SPDT, On-On	4US1R202M7RN
Switch, Lever, Sub-Miniature, Vertical R/A, DPDT, On-On	4UD1R202M7RN

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
 Farnell.com/multicomp-pro
 Element14.com/multicomp-pro

multicomp PRO