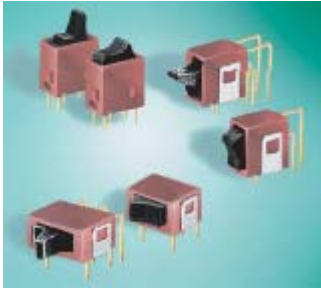


Ultraminiature Rocker&Lever Switches

0.4 VA @ 20V ac or dc



Specifications:

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

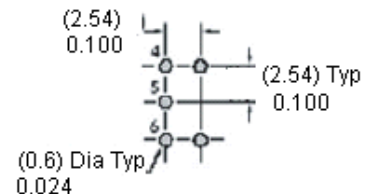
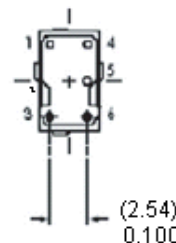
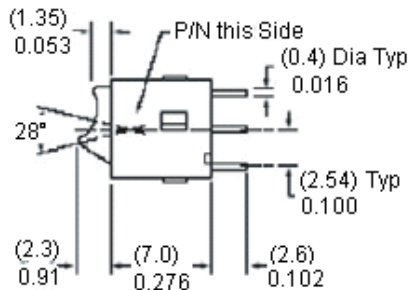
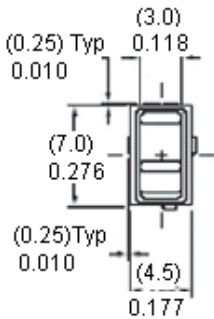
Materials:

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

Pole Option

M2RN

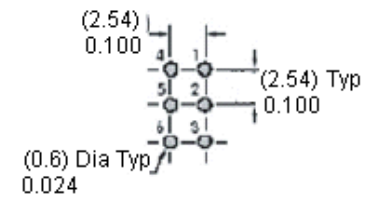
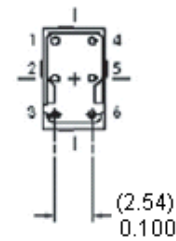
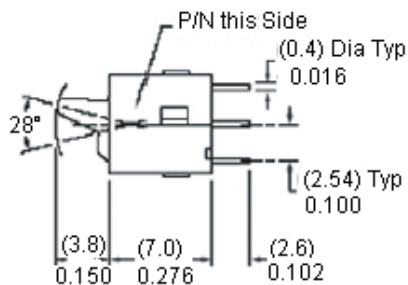
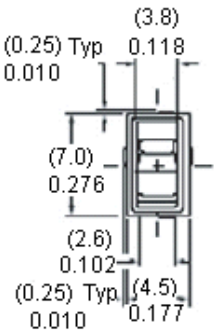
Single Pole



Dimensions : (Millimetres) Inches

M2RN

Double Pole



Dimensions : (Millimetres) Inches



Ultraminiature Rocker&Lever Switches

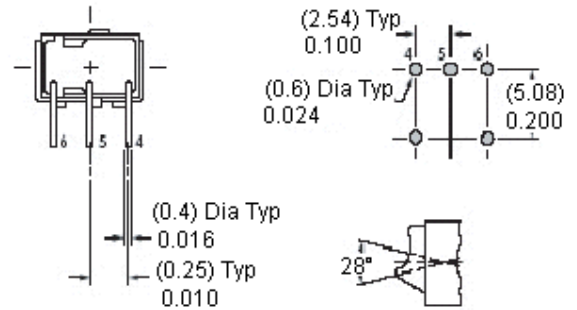
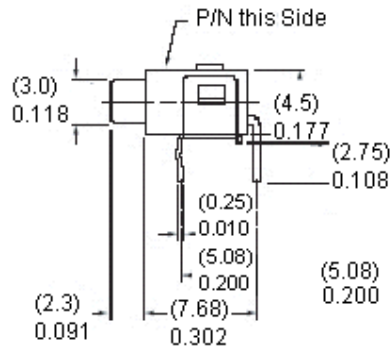
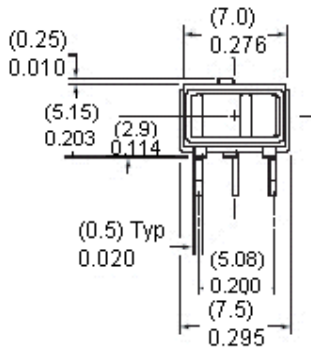


0.4 VA @ 20V ac or dc

Pole Option

M6RN

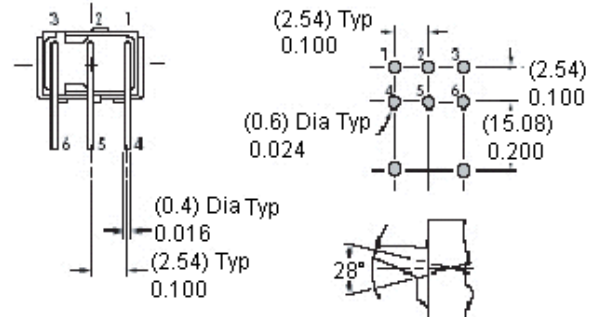
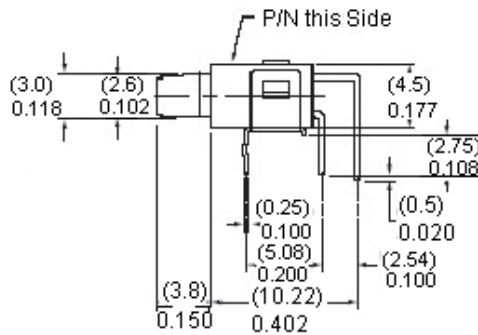
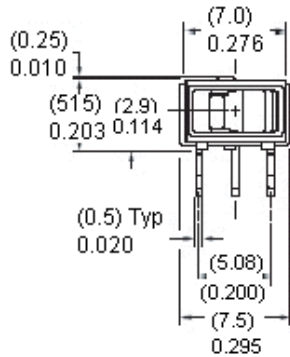
Single Pole



Dimensions : (Millimetres) Inches

M6RN

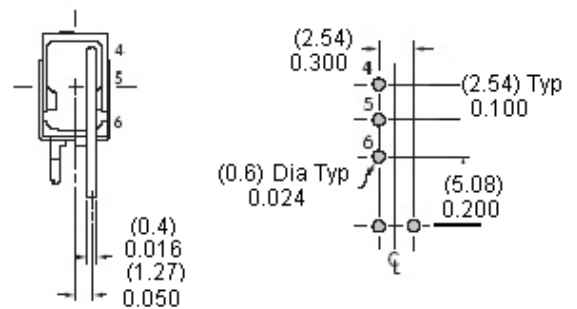
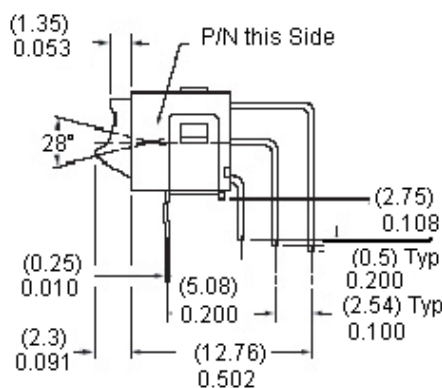
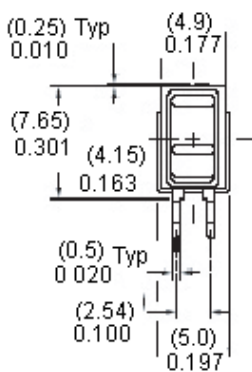
Double Pole



Dimensions : (Millimetres) Inches

M7RN

Single Pole



Dimensions : (Millimetres) Inches



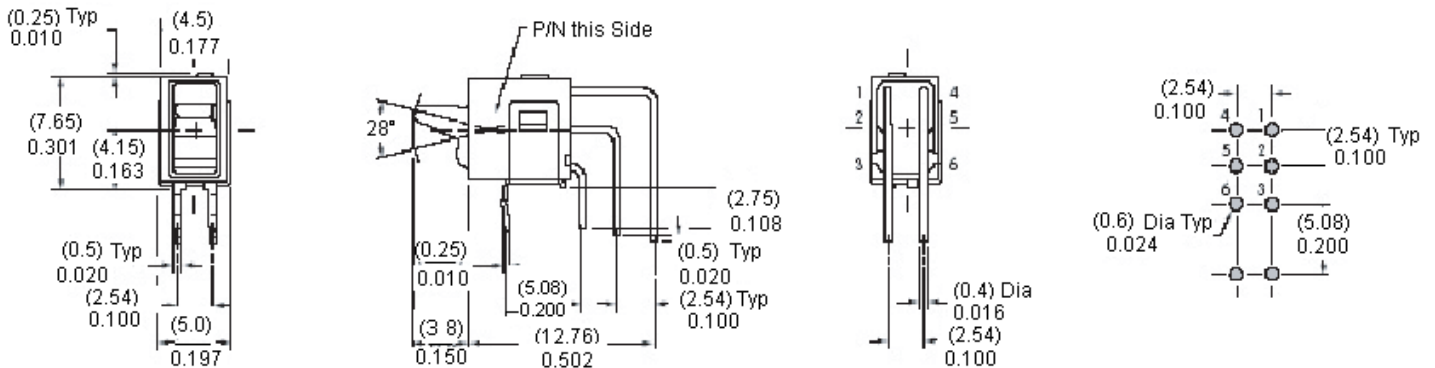
Ultraminiature Rocker&Lever Switches



0.4 VA @ 20V ac or dc

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:

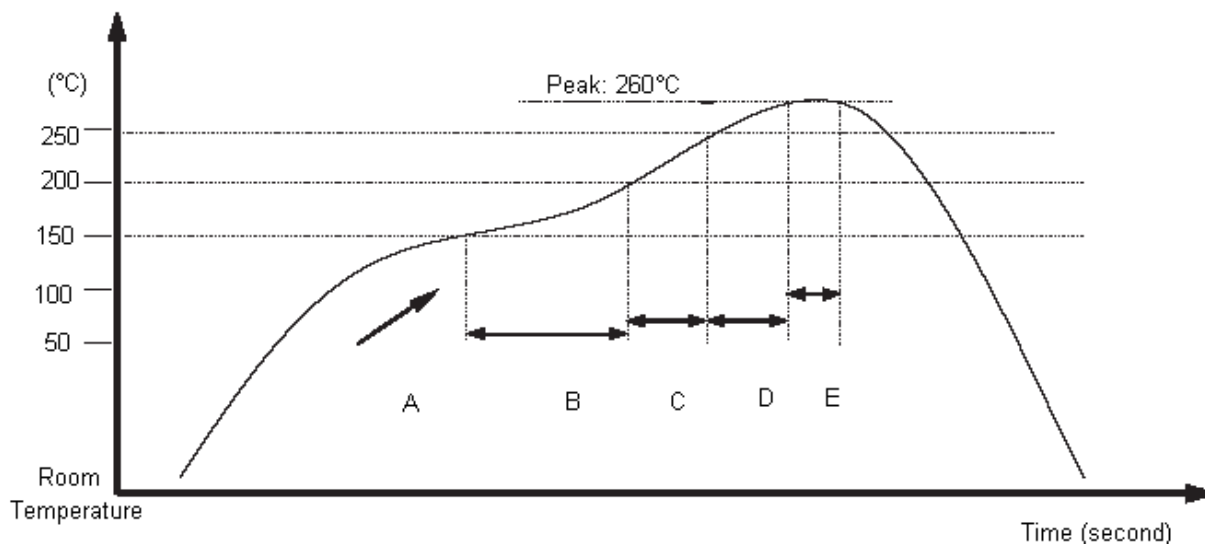
Recommended soldering temperature : 260 ±5°C.

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&Lever Switches



0.4 VA @ 20V ac or dc

Specifications

Number of Poles	Switch Function			Connected Terminals/Schematic			Model Number
	Position 1	Position 2	Position 3	Position 1	Position 2	Position 3	
SP	On	None	On	5 - 6 	Open	5 - 4 	4US1
DP				5 - 6, 2 - 3 2 (Comm) 		5 - 4, 2 - 1 2 (Comm) 	4UD1

Specification 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

Part Number Explanation:

4US1	R10	2	M2	R	N	
Model Number	Actuator	Actuator Colour	Terminations	Contact Material	Seal	RoHS Compliant

- 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.



Ultraminiature Rocker&Lever Switches

0.4 VA @ 20V ac or dc



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