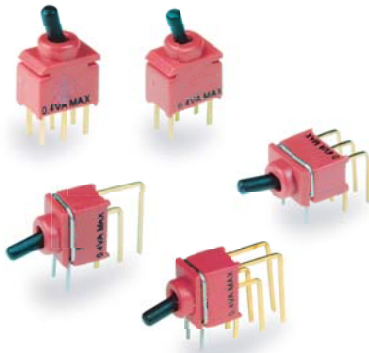


S2U Series

Sealed Ultraminiature Toggle Switches



IP 67
ACCORDING TO
EN 60529:1991+A1:2001
IEC 60529:2001



SPECIFICATIONS

MECHANICAL LIFE: 40,000 make-and-break cycles.

CONTACT RATING: 0.4 VA max. @ 20 V AC or DC max.

CONTACT RESISTANCE: Below 100 mΩ typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: 500 MΩ min.

DIELECTRIC STRENGTH: 500 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 85°C

MATERIALS

HOUSING AND BASE: Glass filled nylon 6/6 or 4/6, flame retardant, heat stabilized (UL94V-0)

ACTUATOR: Glass filled nylon 6/6, flame retardant, heat stabilized (UL94V-0), with standard internal o-ring seal.

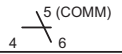
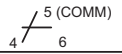







SWITCH SUPPORT: Steel, with nickel plate.

CONTACT / TERMINALS: Silver or gold plated Copper alloy.

HOW TO ORDER

MODEL NO.	ACTUATOR	BUSHING	TERMINATIONS	TERMINAL MATERIAL	SEAL	ROHS SOLDERING
<div>□□□□</div> <div>Model No. S2US1 SP On-None-On S2US3 SP On-Off-On S2US9 SP Off-None-On S2UD1 DP On-None-On S2UD3 DP On-Off-On S2UD9 DP Off-None-On</div>	<div>□□</div> <div>Actuator T1 3.80 high (STD)</div>	<div>□□□</div> <div>Bushing A1 1.60 high (STD)</div>	<div>□□□</div> <div>Terminations M2 PC thru-hole M6 Right angle, PC thru-hole M7 Vertical right angle, PC thru-hole</div>	<div>□</div> <div>Terminal material R Gold</div>	<div>□E</div> <div>Seal E EPOXY (std)</div>	<div>□</div> <div>RoHS soldering <input type="checkbox"/> RoHS Compliant S RoHS & Lead Free F Halogen Free+RoHS</div>

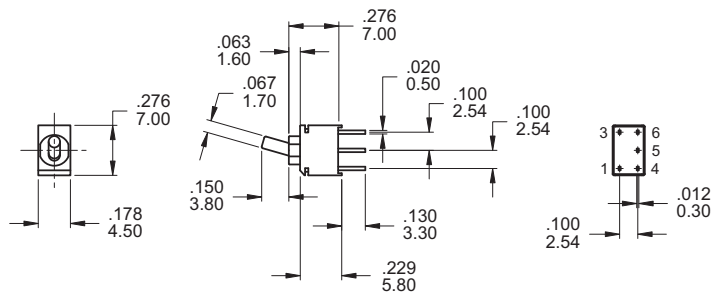
SWITCH FUNCTION

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
		POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
SP	S2US1	ON	NONE	ON	5-6	N/A	5-4
	S2US3	ON	OFF	ON		OPEN	
	S2US9	OFF	NONE	ON	OPEN	N/A	4-6 • 
DP	S2UD1	ON	NONE	ON	2-3, 5-6	N/A	2-1, 5-4
	S2UD3	ON	OFF	ON	 	OPEN	 
	S2UD9	OFF	NONE	ON	OPEN	N/A	 

MOM=MOMENTARY

POLE OPTIONS

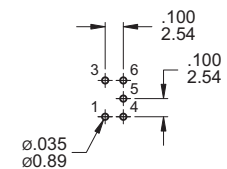
M2



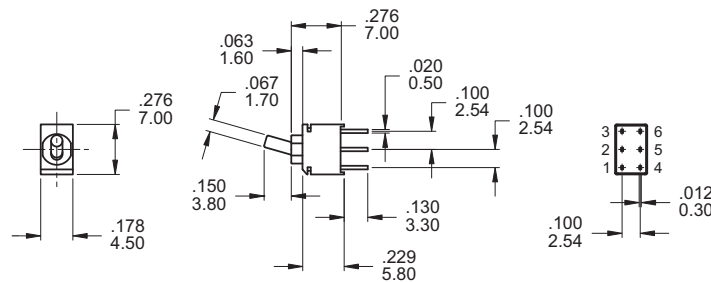
SPDT

Part No. Shown : S2US1T1A1M2RE

P.C. MOUNTING



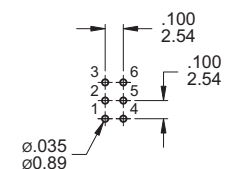
M2



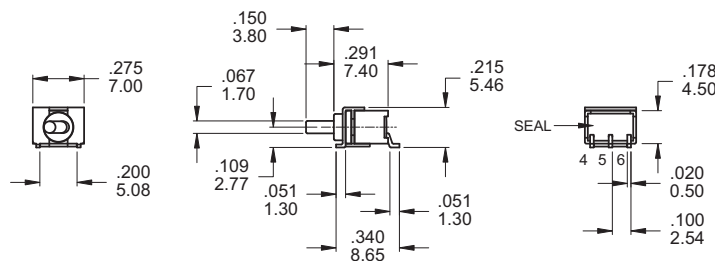
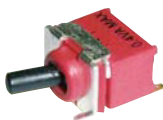
DPDT

Part No. Shown : S2UD1T1A1M2RE

P.C. MOUNTING



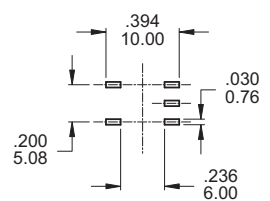
MZ



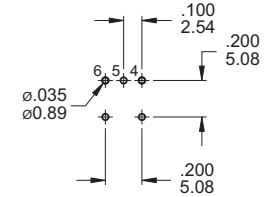
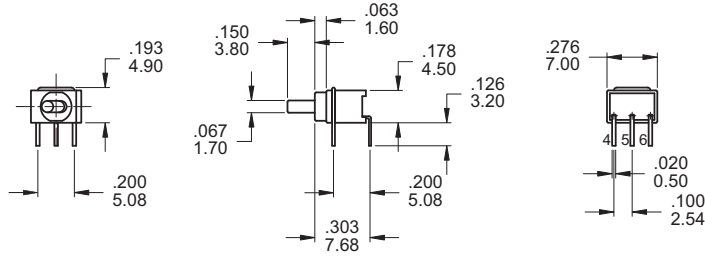
SPDT

Part No. Shown : S2USIT1A1M2RE

P.C. MOUNTING



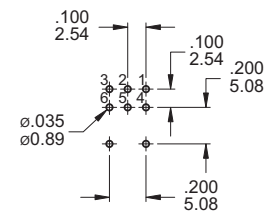
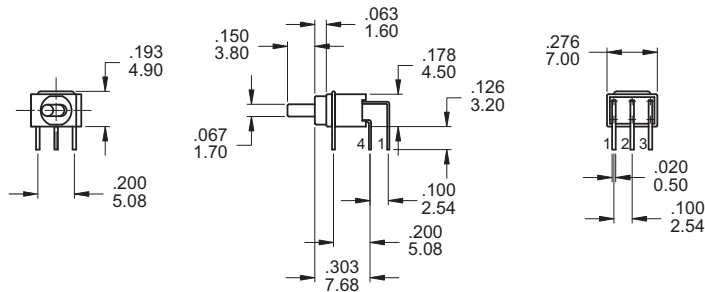
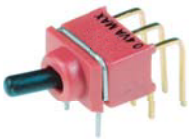
M6



SPDT

Part No. Shown : S2US1T1A1M6RE

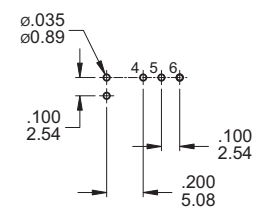
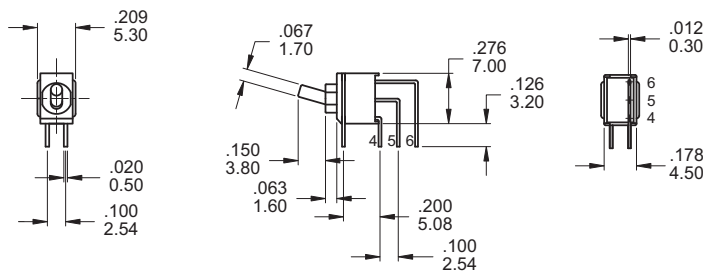
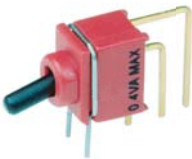
M6



DPDT

Part No. Shown : S2UD1T1A1M6RE

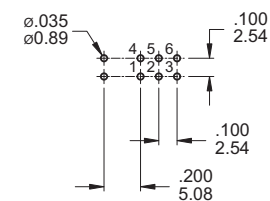
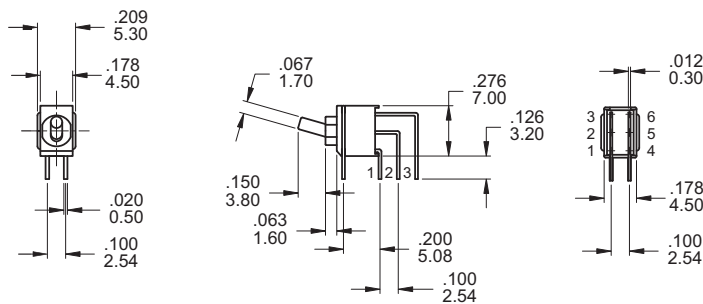
M7



SPDT

Part No. Shown : S2US1T1A1M7RE

M7



DPDT

Part No. Shown : S2UD1T1A1M7RE

SOLDERING PROCESSES

WAVE SOLDERING: Recommended Soldering Temperature: $260 \pm 5^{\circ}\text{C}$

Duration of Solder Immersion: Max 5 sec.

(PCB is 1.6mm in thickness)

SOLDERING: Vapor phase

Temperature Profile

Zone	Room Temperature	Time (Sec)
Pre-heat (A)	150°C	Min 120s
Soak (B)	180°C ~ 200°C	Min 150s
Peak (C)	200°C ~ 235°C	Min 30s
Peak (D)	235°C ~ 260°C	Min 40s
Peak (E)	260°C	Max 5s

