

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 Sn plated.

**CONTACT / TERMINALS:** Gold plated Copper alloy.

## HOW TO ORDER







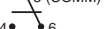
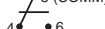

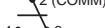
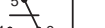
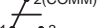



MODEL NO.	ACTUATOR	BUSHING	TERMINATIONS	TERMINAL MATERIAL	SEAL	ROHS SOLDERING
<div> <div></div> <div></div> <div></div> <div></div> </div> <p>Model No.  <b>2US1</b> SP On-None-On  <b>2US3</b> SP On-Off-On  <b>2US9</b> SP Off-None-On  <b>2UD1</b> DP On-None-On  <b>2UD3</b> DP On-Off-On  <b>2UD9</b> DP Off-None-On</p>	<div> <div></div> <div></div> </div> <p>Actuator  <b>T1</b> 3.80x1.70(STD)  <b>T29</b> 3.80x2.00, Gray</p>	<div> <div></div> <div></div> <div></div> </div> <p>Bushing  <b>A1</b> 1.60 high (STD)  <b>A2</b> 1.60 high, Black</p>	<div> <div></div> <div></div> <div></div> </div> <p>Terminations  <b>M2</b> PC thru-hole  <b>M6</b> Right angle, PC thru-hole  <b>M7</b> Vertical right angle, PC thru-hole</p>	<div> <div></div> </div> <p>Terminal material  <b>R</b> Gold</p>	<div> <div></div> </div> <p>Seal  <b>E</b> EPOXY (std)</p>	<div> <div></div> </div> <p>RoHS soldering  <input type="checkbox"/> RoHS Compliant  <b>S</b> RoHS &amp; Lead Free</p>

NOTE: T29A2 type only for 2US1/2US3/2UD1/2UD3 function



## SWITCH FUNCTION

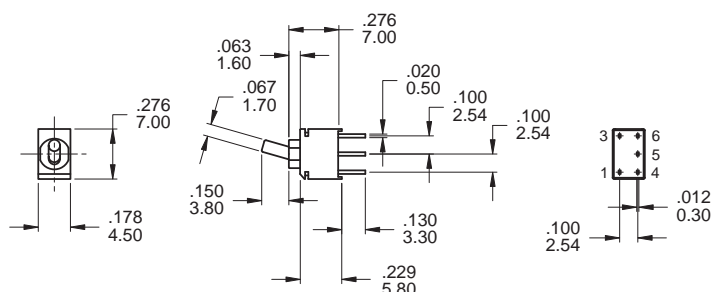
## 2U Toggle Switches

NO. POLES	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
		POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
							
SP	2US1	ON	NONE	ON	5-6	N/A	5-4
	2US3	ON	OFF	ON		OPEN	
	2US9	OFF	NONE	ON	OPEN	N/A	4-6 
DP	2UD1	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4
	2UD3	ON	OFF	ON	 	OPEN	 
	2UD9	OFF	NONE	ON	OPEN	N/A	 

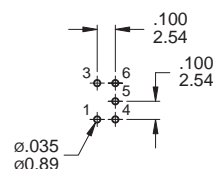
MOM=MOMENTARY

## POLE OPTIONS

## M2



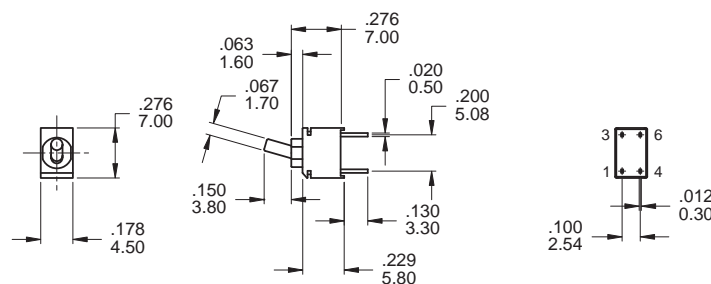
## P.C. MOUNTING



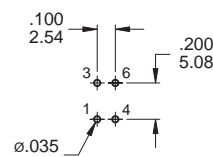
## SPDT

Part No. Shown : 2US1T1A1M2RE

## M2



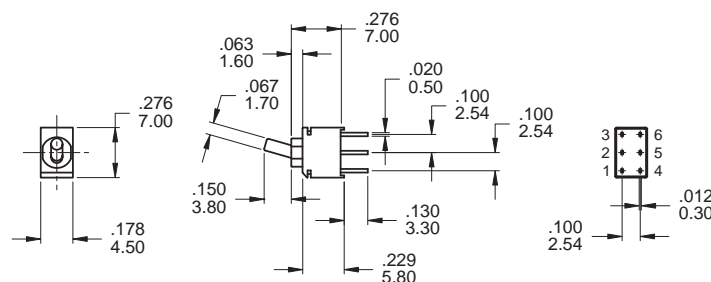
## P.C. MOUNTING



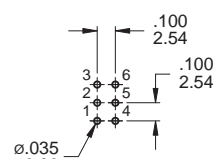
## SPDT

Part No. Shown : 2US9T1A1M2RE

## M2



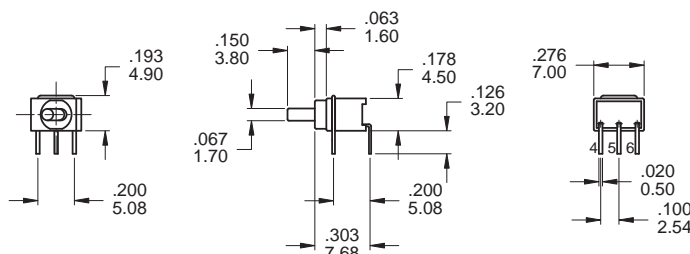
## P.C. MOUNTING



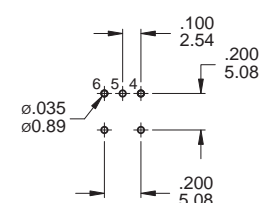
## DPDT

Part No. Shown : 2UD1T1A1M2RE

M6



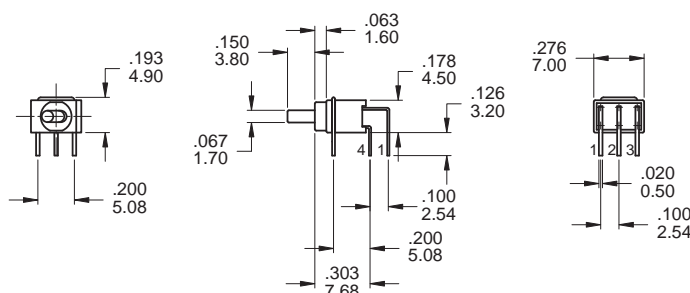
P.C. MOUNTING



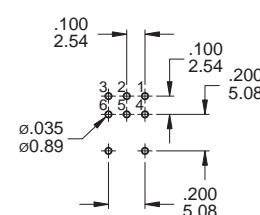
SPDT

Part No. Shown : 2US1T1A1M6RE

M6



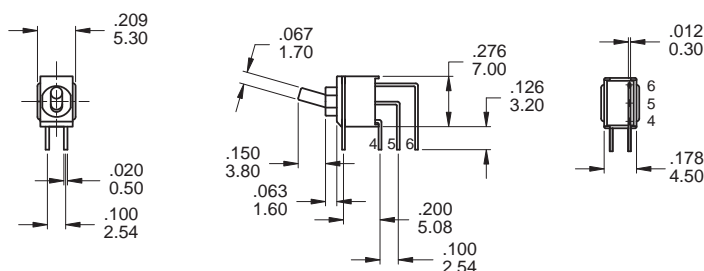
P.C. MOUNTING



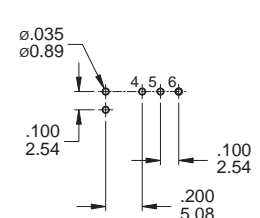
DPDT

Part No. Shown : 2UD1T1A1M6RE

M7



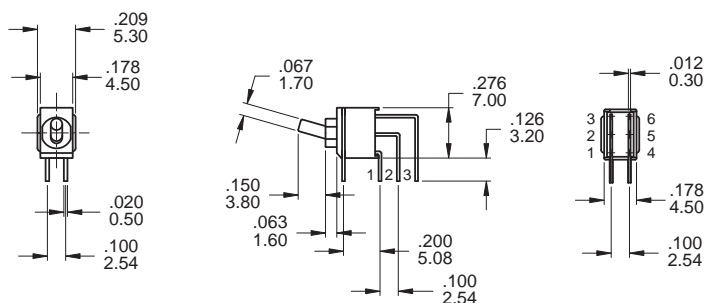
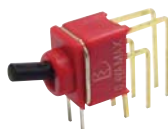
P.C. MOUNTING



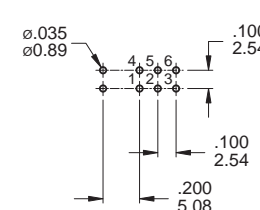
SPDT

Part No. Shown : 2US1T1A1M7RE

M7



P.C. MOUNTING



DPDT

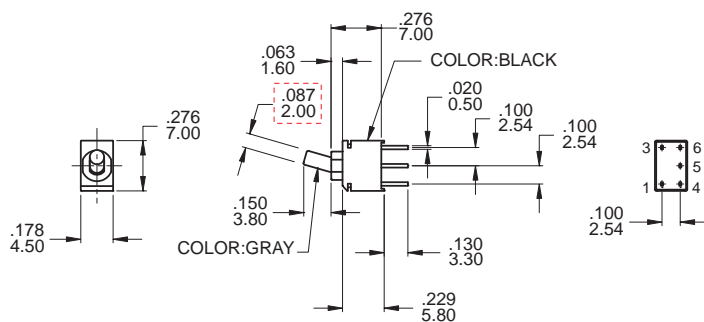
Part No. Shown : 2UD1T1A1M7RE

# 2U Series

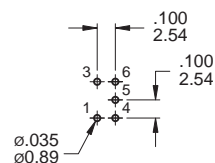
Sealed Ultraminiature Toggle Switches

\* T29A2 type only for 2US1/2US3/2UD1/2UD3 function

M2



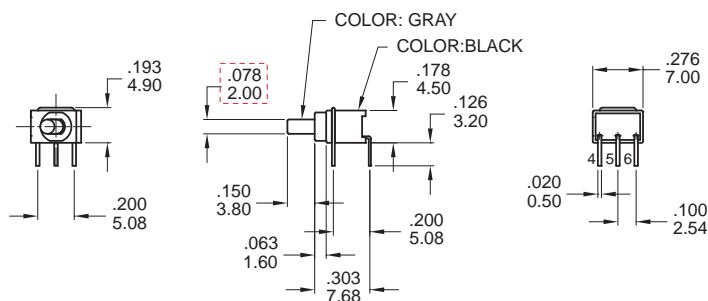
P.C. MOUNTING



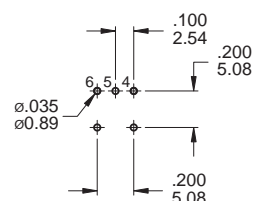
SPDT

Part No. Shown : 2US1T29A2M2RE

M6



P.C. MOUNTING



SPDT

Part No. Shown : 2US1T29A2M6RE

## 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)