

# 2B SERIES

SEALED SUB-MINIATURE TOGGLE SWITCHES



## SPECIFICATIONS

**CONTACT RATING:** Dependent upon contact material

**MECHANICAL LIFE:** 30,000 make-and-break cycles.

**CONTACT RESISTANCE:** 20 mΩ max. initial @ 2-4VDC

100mA for both silver and gold plated contacts.

**INSULATION RESISTANCE:** 1,000 MΩ min.

**DIELECTRIC STRENGTH:** 1,000 Vrms min. @ sea level.

**OPERATING TEMPERATURE:** -30°C to 85°C.

## MATERIALS

**CASE & BUSHING:** Glass filled nylon 6/6, flame retardant, heat stabilized (UL94v-0).

**ACTUATOR:** Brass, chrome plated, internal O-ring seal. Standard for all actuators.

**SWITCH SUPPORT:** Brass, tin plated.

**CONTACT / TERMINALS:** Copper alloy, with Silver or gold plated.

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

UL US  
E 187490

RoHS  
compliant

lead-free

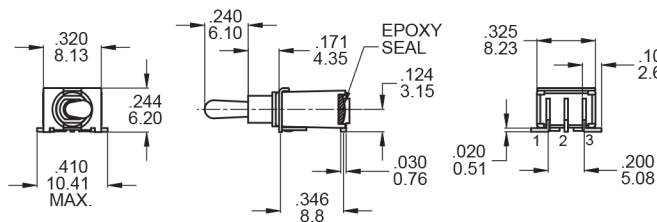
## SWITCH FUNCTION

NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
			POS. 1	POS. 2	POS. 3	POS. 1	POS. 2	POS. 3
SP	Q22B11	2BS1	ON	NONE	ON	2-3	N/A	2-1
	Q22B12	2BS2	ON	NONE	MOM			
	Q22B13	2BS3	ON	OFF	ON			
	Q22B14	2BS4	MOM	OFF	MOM			
	Q22B15	2BS5	ON	OFF	MOM			

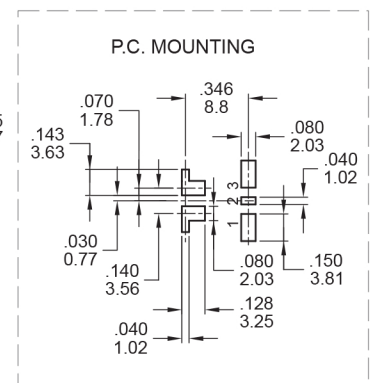
MOM=MOMENTARY

## POLE OPTIONS

MT



P.C. MOUNTING



SPDT

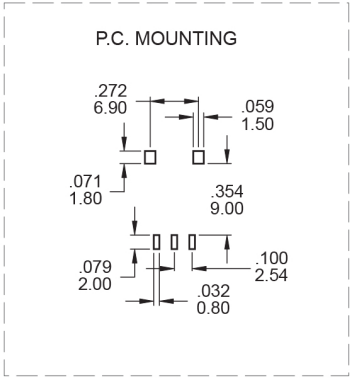
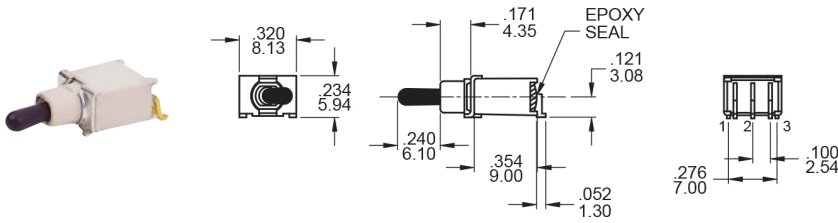
# 2B SERIES

SEALED SUB-MINIATURE TOGGLE SWITCHES



## POLE OPTIONS

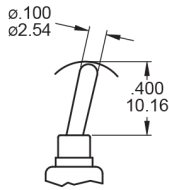
MZ



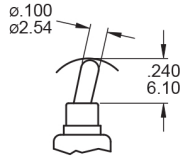
SPDT

## ACTUATOR OPTIONS

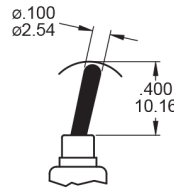
T1



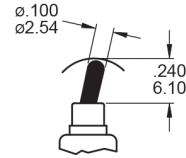
T2



TA



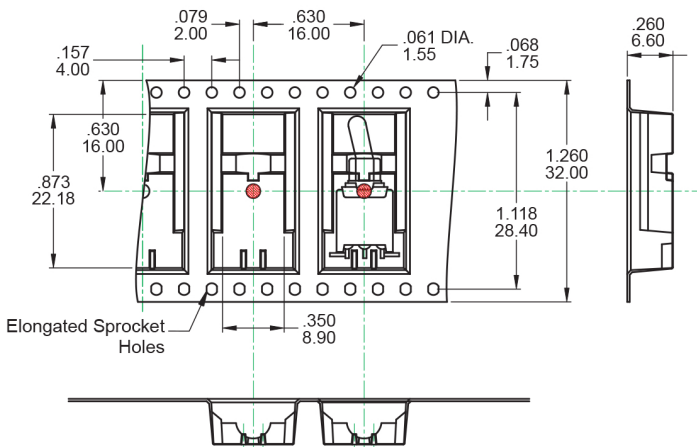
TB



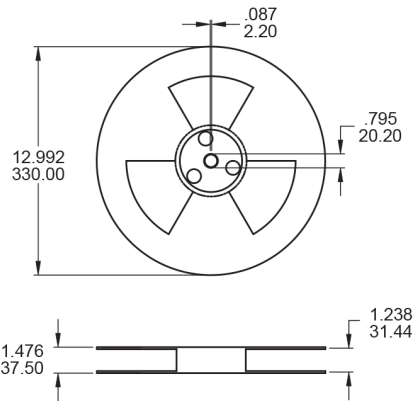
PLASTIC ACTUATOR

## PACKAGING

Switches available on embossed antistatic tape and reels.  
Tape and cover strip are conductive for use near statically sensitive components.



SCALE: 1 : 1



SCALE: 10 : 1

REEL INFORMATION	
QUANTITY PER REEL	500 / pcs

## CONTACT MATERIAL OPTIONS

	CONTACT PLATING	TERMINAL PLATING	RATINGS
Q	Silver	Q = Gold flash over silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VAC
C	Gold over Silver	C = Gold over silver	
R	Gold	R = Gold	0.4 Volt - Amps ( VA ) max. @ 20V max. ( AC or DC )

## SOLDERING PROCESSES

### REFLOW 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 & IR-reflow soldering can be applied.**

