



## SPECIFICATIONS

**CONTACT RATING:** Dependent upon contact material See Page 37.

**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.  
(See Page 37)

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

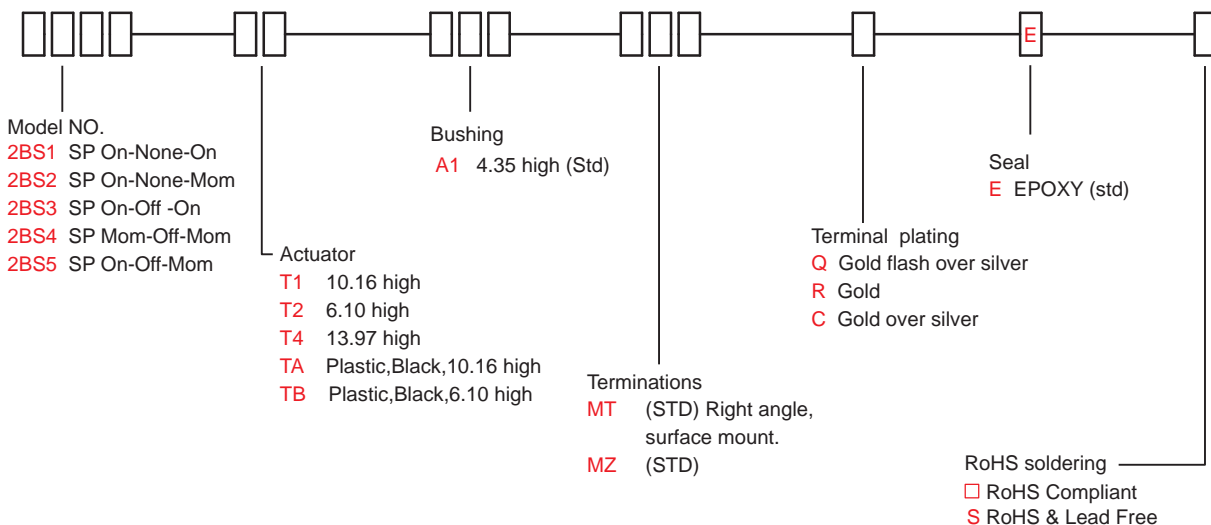
UL US  
E 187490

RoHS  
compliant

Pb  
lead-free

## HOW TO ORDER

MODEL NO.      ACTUATOR      BUSHING      TERMINATIONS      TERMINAL PLATING      SEAL      RoHS SOLDERING



# 2B Series

Sealed Sub-Miniature Toggle Switches(SMT)

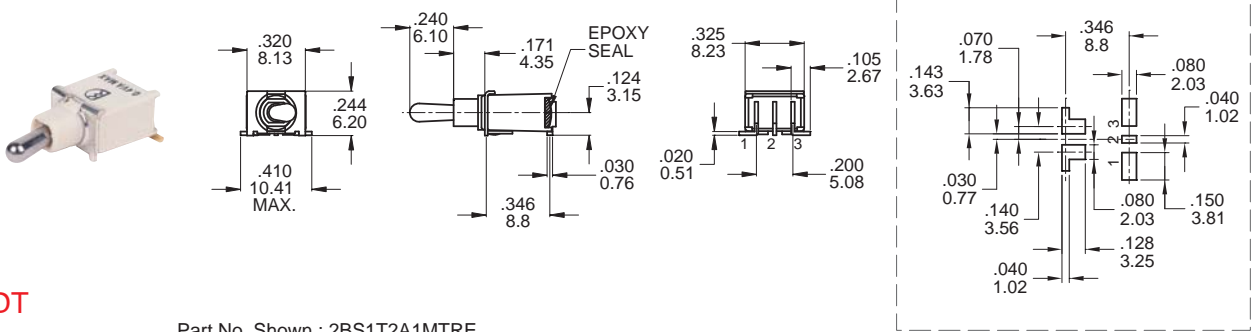
## SWITCH FUNCTION

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		OPEN	
	Q22B14	2BS4	MOM	OFF	MOM			
	Q22B15	2BS5	ON	OFF	MOM			

MOM=MOMENTARY

## POLE OPTIONS

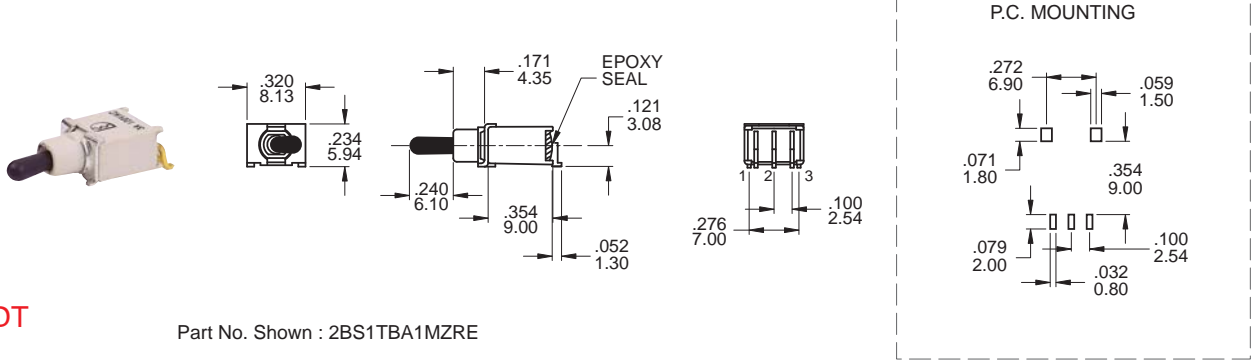
MT



Part No. Shown : 2BS1T2A1MTRE

SPDT

MZ

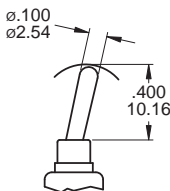


Part No. Shown : 2BS1TBA1MZRE

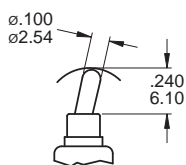
SPDT

## ACTUATOR OPTIONS

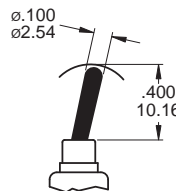
T1



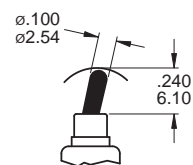
T2



TA



TB

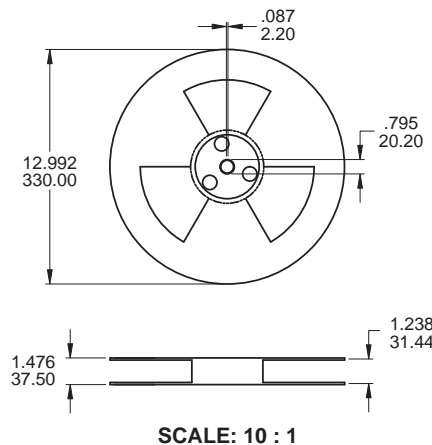
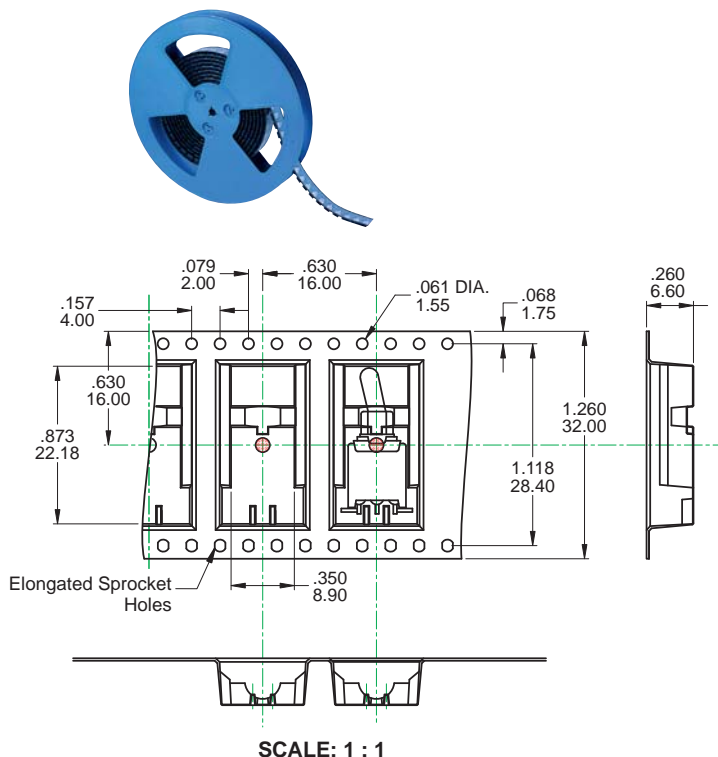


PLASTIC ACTUATOR

2B Toggle Switches

### PACKAGING

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



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

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

