

2B Series

Sealed Sub-Miniature Toggle Switches (SMT)



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

Pb
lead-free

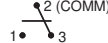
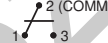
HOW TO ORDER

MODEL NO.	ACTUATOR	BUSHING	TERMINATIONS	TERMINAL PLATING	SEAL	RoHS SOLDERING
□□□□	□□	□□□	□□□	□	E	□
Model NO. 2BS1 SP On-None-On 2BS2 SP On-None-Mom 2BS3 SP On-Off -On 2BS4 SP Mom-Off-Mom 2BS5 SP On-Off-Mom	Actuator T1 10.16 high T2 6.10 high T4 13.97 high TA Plastic, Black, 10.16 high TB Plastic, Black, 6.10 high	Bushing A1 4.35 high (Std)	Terminations MT (STD) Right angle, surface mount. MZ (STD)	Terminal plating Q Gold flash over silver R Gold C Gold over silver	Seal E EPOXY (std)	RoHS soldering S RoHS & Lead Free

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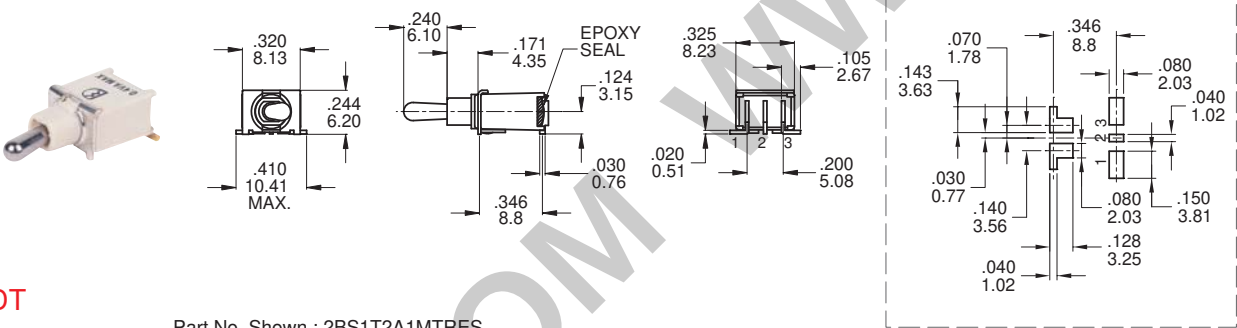
SWITCH FUNCTION

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		N/A	
	Q22B12	2BS2	ON	NONE	MOM			
	Q22B13	2BS3	ON	OFF	ON			
	Q22B14	2BS4	MOM	OFF	MOM		OPEN	
	Q22B15	2BS5	ON	OFF	MOM			

MOM=MOMENTARY

POLE OPTIONS

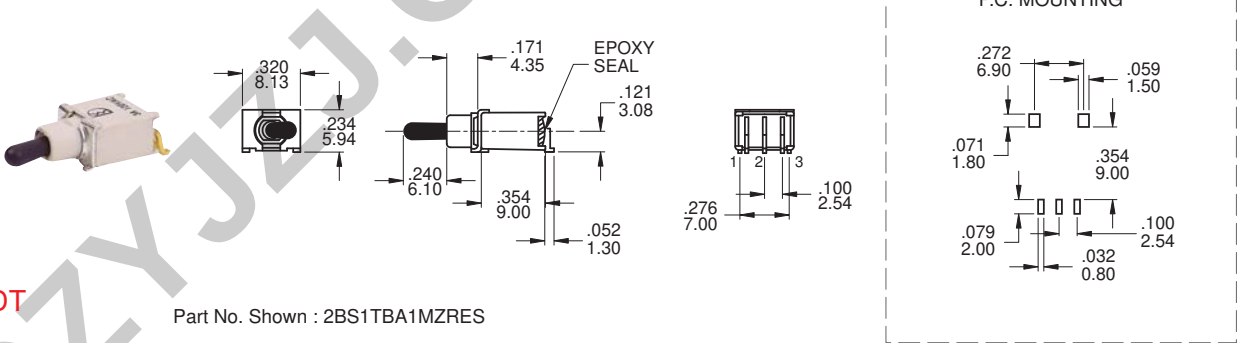
MT



SPDT

Part No. Shown : 2BS1T2A1MTRES

MZ

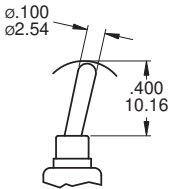


SPDT

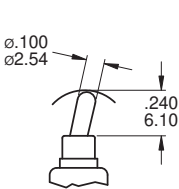
Part No. Shown : 2BS1TBA1MZRES

ACTUATOR OPTIONS

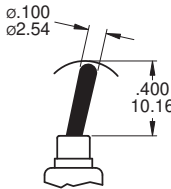
T1



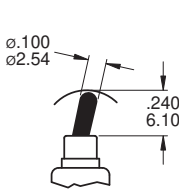
T2



TA



TB

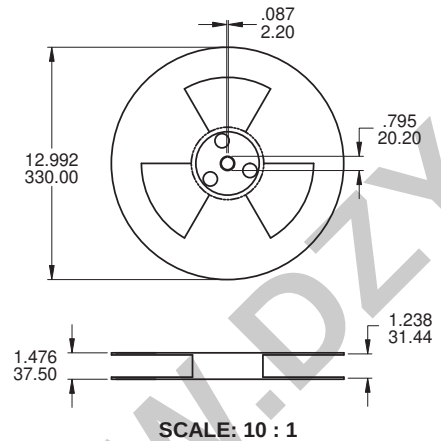
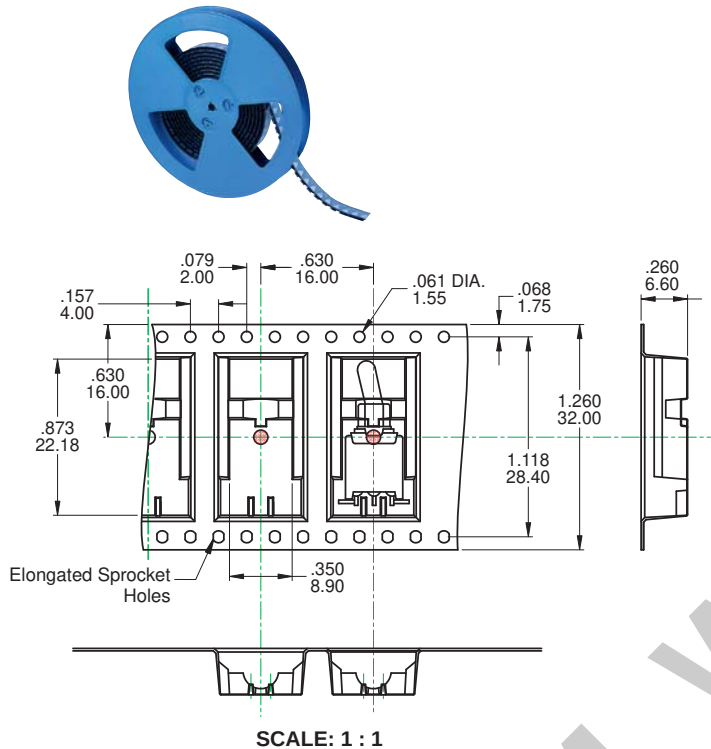


PLASTIC ACTUATOR

PACKAGING

Switches available on embossed antistatic tape and reels.

Tape and cover strip are conductive for use near statically sensitive components.



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.

Temperature Profile

Zone	Room Temperature	Time (Sec)
Pre-heat (A)	150°C	Min 120s
Soak (B)	150°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

