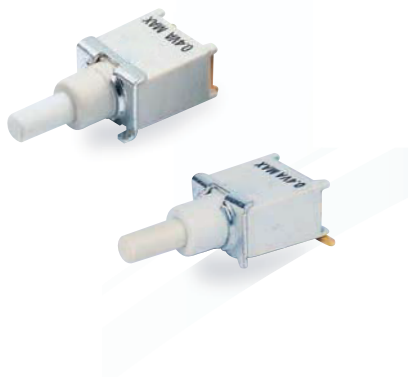


SP8B Series

Sealed Sub-Miniature Pushbutton Switches(SMT)



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material.

MECHANICAL LIFE: 50,000 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 sralbilized (UL94v-0).

PLUNGER: Thermoplastic Polyester (UL 94V-0),
with intenal O-ring seal.

SWITCH SUPPORT: Brass,tin plated.

CONTACT / TERMINALS: Silver or gold plated copper alloy.

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

C  US
E 187490


RoHS
compliant


lead-free

HOW TO ORDER

MODEL NO.	TERMINATIONS	CONTACT MATERIAL	SEAL	RoHS SOLDERING
			E	
Model NO. SP8BS8 On-Mom. SP8BS9 Off-Mom.	Terminations MT (STD) Right angle, surface mount. MZ (STD)	Contact material Q Silver R Gold C Gold over silver	Seal E EPOXY (std)	RoHS soldering ☐ RoHS Compliant ☐ RoHS & Lead Free ☐ Halogen Free+RoHS

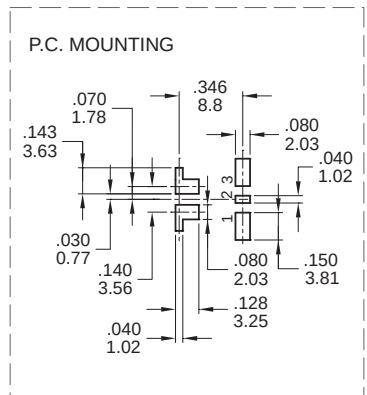
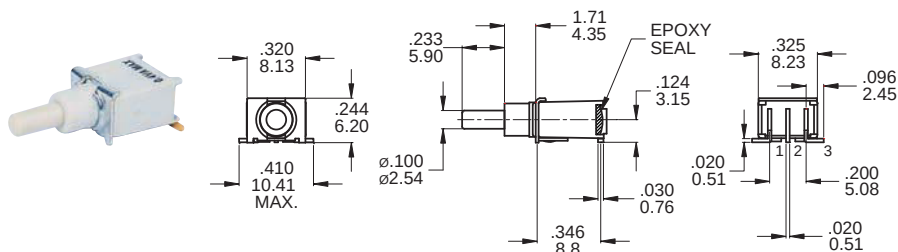
SWITCH FUNCTION

NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS / SCHEMATIC	
			POS.1	POS.2	POS.1	POS.2
						
SP	Q28B18	SP8BS8	ON	MOM	2-1 	2-3 
	Q28B19	SP8BS9	OFF	MOM	OPEN	1-3 

MOM=MOMENTARY

POLE OPTIONS

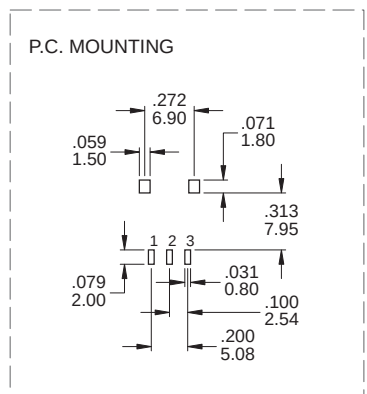
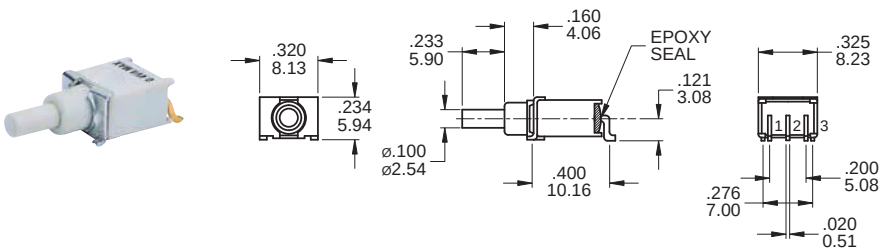
MT



SPDT

Part No. Shown : SP8BS8MTRE

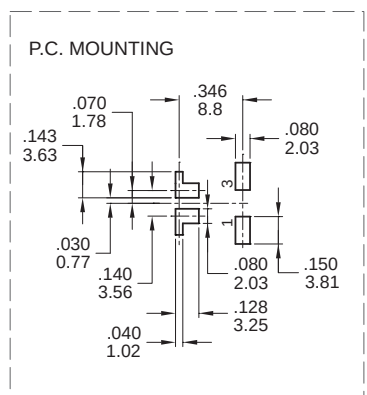
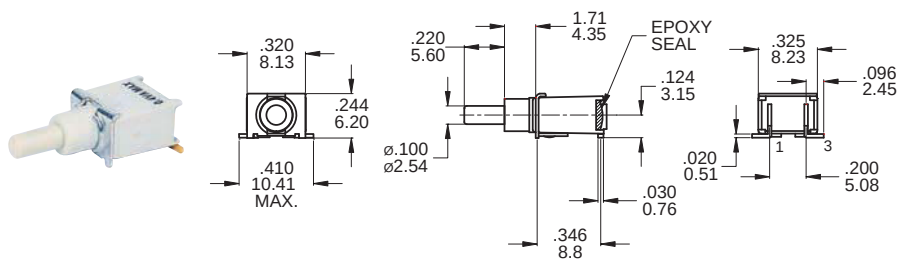
MZ



SPDT

Part No. Shown : SP8BS8MZRE

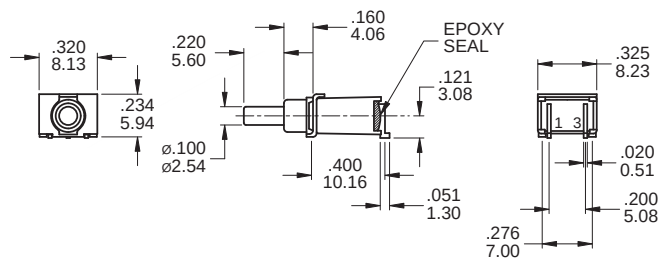
MT



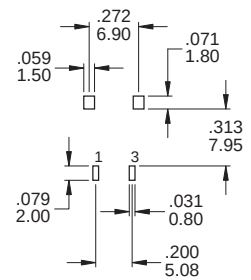
SPST

Part No. Shown : SP8BS9MTRE

MZ



P.C. MOUNTING



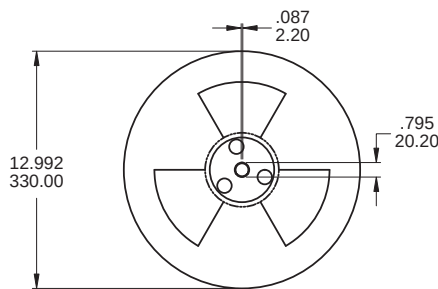
SPST

Part No. Shown : SP8BS9MZRE

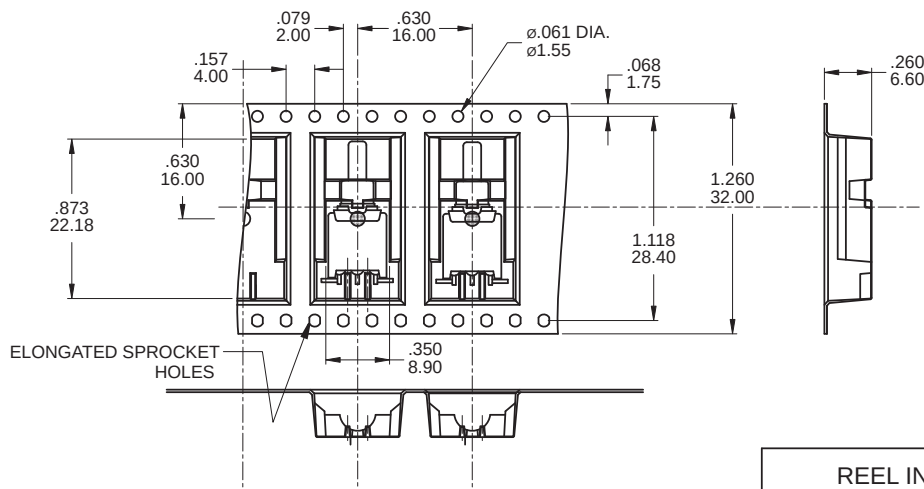
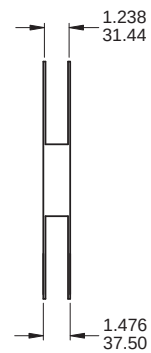
PACKAGING

Switches available on embossed antistatic tape and reels.

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



SCALE: 10 : 1



SCALE: 1 : 1

REEL INFORMATION

QUANTITY PER REEL	500 / pcs
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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

MANUAL SOLDERING: Use soldering iron of 30 watts, controlled at 350°C
approximately 5 seconds while applying solder.

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.

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

