



- **Pre-travel or over-travel models available**
- **Ratings up to 3 AMPS**
- **Reliable contact design**
- **RoHS compliant**

- **Detection**
- **Telecommunications and networking equipment**
- **Computers and peripherals**

### Models Available

# 8500 Series Subminiature Pushbutton Switches



A

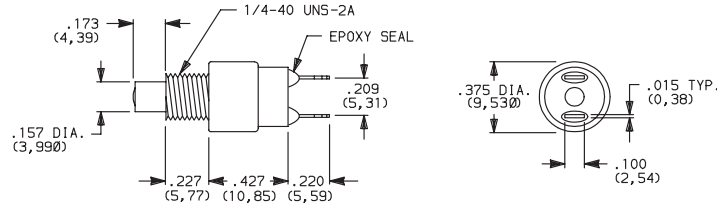
Pushbutton

## SWITCH FUNCTION



NO. POLES	MODEL NO.	RATING	SWITCH FUNCTION		TOTAL TRAVEL	ACTUATION FORCE	SCHEMATIC
			POS. 1	POS. 2			
SP	<b>8531</b>	1 AMP	OFF	MOM.	.095 (2,41) TYP. with overtravel .042 (1,07) TYP.	7.7 oz (220g) TYP.	N.O. with overtravel
	<b>8551</b>	3 AMPS					

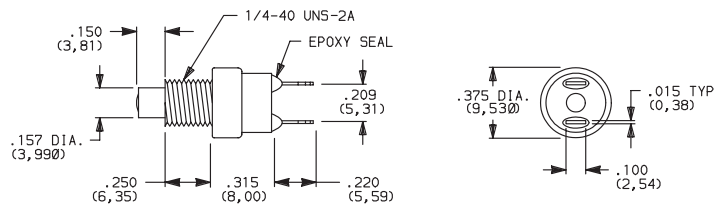
### SPST



Part number shown: 8531MZQE2

SP	<b>8532</b>	1 AMP	OFF	MOM.	.050 (1,27) TYP.	6 oz (170g) TYP.	N.O.
	<b>8552</b>	3 AMPS					

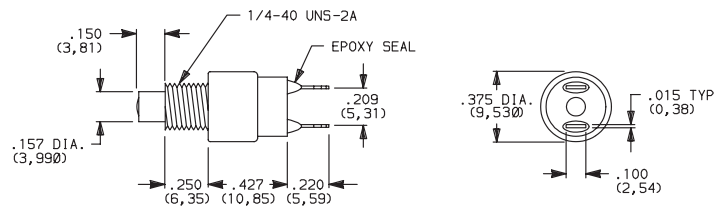
### SPST



Part number shown: 8532MZQE2


SP	<b>8533</b>	1 AMP	ON	MOM.	.080 (2,03) TYP. with pretravel .057 (1,45) TYP.	11.5 oz (456 g) TYP.	N.C. with pretravel
	<b>8534</b>	1 AMP			.032 (0,81) TYP. with overtravel .028 (0,71) TYP.		

### SPST



Part number shown: 8533MZQE2

MOM. = Momentary

All models  with all options when ordered with G or Q contact material.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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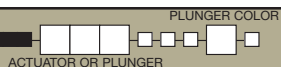


A

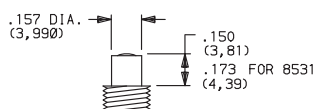
Pushbutton

# 8500 Series Subminiature Pushbutton Switches

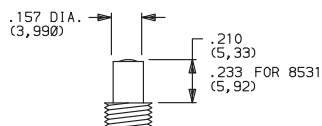
## PLUNGER



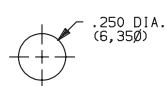
### M .150" HIGH PLUNGER



### S .210" HIGH PLUNGER



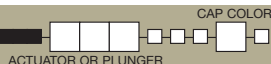
### PANEL MOUNTING



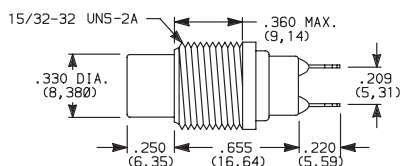
OPTION CODE	PLUNGER COLOR
2	BLACK
3	RED

**NOTE:** One mounting nut and lockwasher supplied with all actuators (except T actuator: two nuts supplied).

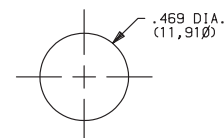
## ACTUATOR



### T 15/32 BUSHING



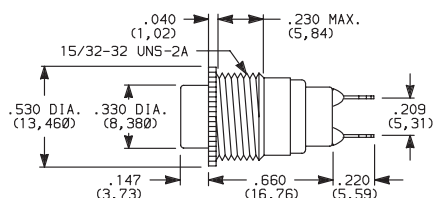
### PANEL MOUNTING



OPTION CODE	CAP COLOR
2	BLACK
1	WHITE
3	RED
9	GRAY

**NOTE:** No frame color choice required.

### T1 15/32 BUSHING WITH FRAME



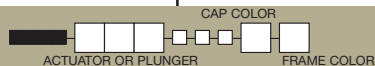
**NOTE:** No frame color choice required.  
Available with 8532 and 8534 models only.

Cap Finish: gloss. Other colors available, consult Customer Service Center.

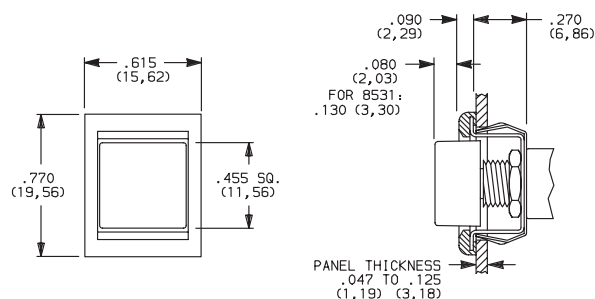
One mounting nut and lockwasher supplied with all actuators (except T actuator: two nuts supplied).

**NOTE:** Caps available for plunger options, see page A-65.

## ACTUATOR—SNAP-IN FRONT MOUNT



### J81 SNAP-IN WITH FRAME



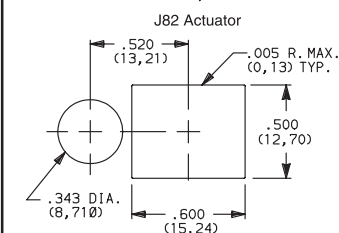
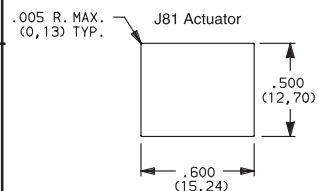
OPTION CODE	CAP AND FRAME COLOR
2	BLACK

Cap and Frame Finish: matte. Other colors available, consult Customer Service Center.

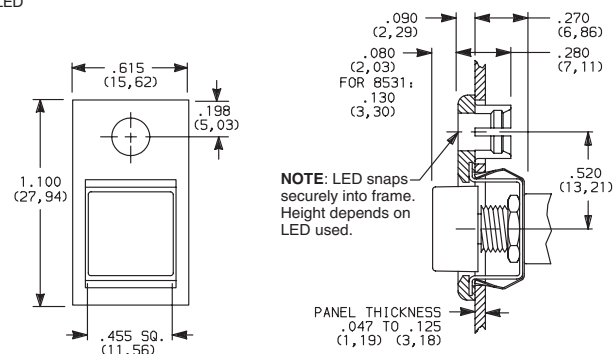
One mounting nut and lockwasher supplied with all actuators.

**NOTE:** Caps & frames available separately, see pages A-65 and A-66.

### PANEL MOUNTING

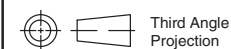


### J82 SNAP-IN WITH FRAME FOR LED



**NOTE:** LED snaps securely into frame. Height depends on LED used.

**LED not included.**  
For LED information, see page A-66.



Dimensions are shown: Inches (mm)  
Specifications and dimensions subject to change

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# 8500 Series Subminiature Pushbutton Switches

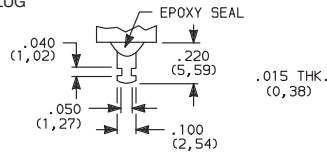


A

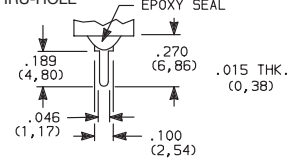
Pushbutton

## TERMINATIONS

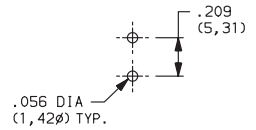
### Z SOLDER LUG



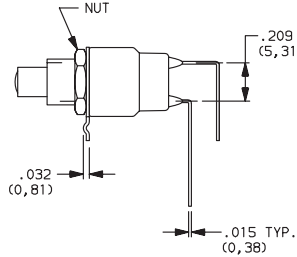
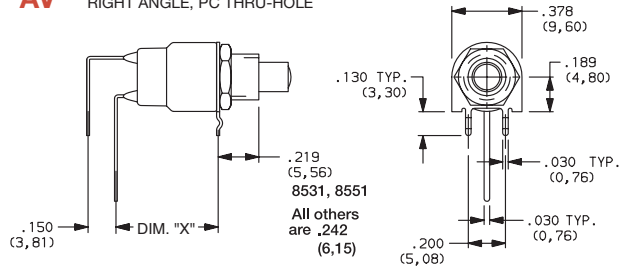
### C PC THRU-HOLE



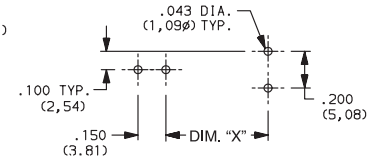
### PC MOUNTING



### AV RIGHT ANGLE, PC THRU-HOLE



### PC MOUNTING



Available with

MODEL NO.	DIM "X"
8531, 8533	0.550
8532, 8534	0.438

NOTE: Available with M or S plunger models, and B contact material only.

## CONTACT MATERIAL

OPTION CODE	RoHS COMPLIANT *	RoHS COMPATIBLE *	TERMINAL PLATING	CONTACT MATERIAL	RATINGS	
B	YES	YES	GOLD <sup>1</sup>	GOLD	LOW LEVEL/DRY CIRCUIT	0.4 VA MAX. @ 20 V AC OR DC MAX.
Q	YES	YES	SILVER <sup>4</sup>	SILVER <sup>5</sup>	POWER	853X MODELS: 1 AMP @ 120 V AC OR 28 V DC. 855X MODELS: 3 AMPS @ 120 V AC OR 28 V DC.
G	YES	YES	GOLD OVER SILVER <sup>2</sup>	GOLD <sup>3</sup>	LOW LEVEL/DRY CIRCUIT OR POWER	0.4 V MAX @20 V AC OR DC MAX. OR 853X MODELS: 1 AMP @ 120 V AC OR 28 V DC. 855X MODELS: 3 AMPS @120 V AC OR 28 V DC.

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

<sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.


<sup>2</sup> CONTACTS: Coin silver, with gold plate over nickel plate.

<sup>3</sup> TERMINALS: Copper alloy, with gold plate over nickel plate.

<sup>4</sup> CONTACTS: Coin silver, silver plated.

<sup>5</sup> TERMINALS: Copper alloy, silver plated.

NOTE: Any models supplied with Q, B or G contact material are RoHS compliant.

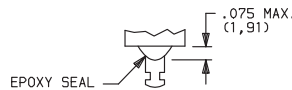
All models  with all options when ordered with G or Q contact material.

Q contact material standard with C, Z terminations.

8551 & 8552 available with Q contact material only.

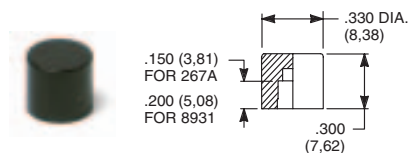
## SEAL

### E EPOXY SEAL



## REPLACEMENT HARDWARE

### Cap for 0.157" dia. plungers



#### PART NO.

267A01000 WHITE  
267A02000 BLACK  
267A03000 RED  
267A09000 GRAY

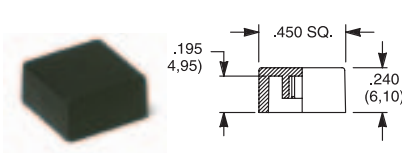
85X2T, 8534T models only  
Material: Nylon  
Finish: Gloss

#### PART NO.

893101000 WHITE  
893102000 BLACK  
893103000 RED  
893109000 GRAY

85X1T, 8532T1, 8533T, 8534T1 models only  
Material: Nylon  
Finish: Gloss

### Cap, J80, J81 & J 82 options only



#### PART NO.

448901000 WHITE  
448902000 BLACK  
448903000 RED  
448909000 GRAY

Material: Nylon  
Finish: Gloss or matte

### Frame



#### PART NO.

613302263 BLACK

Material: Nylon  
Finish: Matte



Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

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Other colors available, consult Customer Service Center.



# 8500 Series Subminiature Pushbutton Switches

## AVAILABLE HARDWARE

### Frame



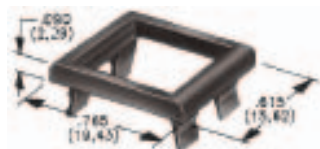
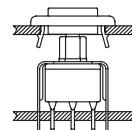
**PART NO.**  
**615602263** BLACK

Material: Nylon  
Finish: Matte

**NOTE:** Additional nuts, locking rings and lockwashers available separately, see section "Technical Data and Additional Hardware".  
Other colors available, consult Customer Service Center.

Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.

### TYPICAL APPLICATION



.047" (1,19) PANEL THK.

**PART NO.**  
**432502263**

.062" (1,57) PANEL THK.

**PART NO.**  
**432602263**

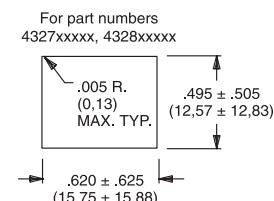
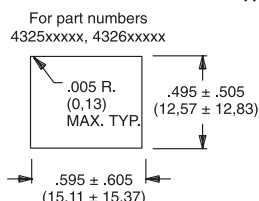
.090" (2,29) PANEL THK.

**PART NO.**  
**432702263**

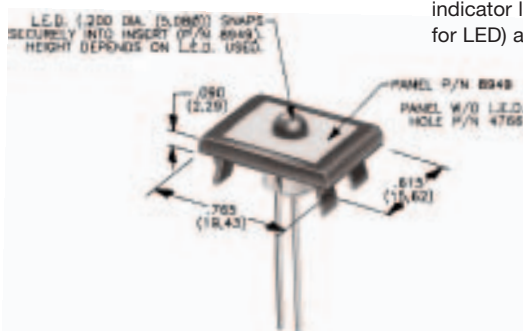
.125" (3,18) PANEL THK.

**PART NO.**  
**432802263** BLACK

### PANEL MOUNTING



### Panel Inserts



Above frames (part nos. 432XXXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole for LED) also available. **LED not included.**

PANEL INSERT  
WITH HOLE FOR LED

**PART NO.**  
**894902000**

BLANK PANEL INSERT  
WITHOUT HOLE FOR LED

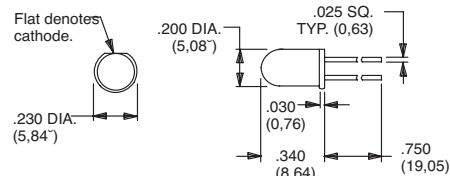
**PART NO.**  
**476602000** BLACK

Special colors, custom markings available, consult Customer Service Center.

### LED INFORMATION

**Process Information:** Soldering to LED leads must be completed within 5 seconds at 500°F (260°C) maximum.

LEDs are not supplied with J82 option. LED snaps into switch frame surrounding actuator and is wired externally.



Suggested LED for J82 option.  
Dimensions for reference only.