

## Push Button Switches

### Subminiature Washable, Momentary

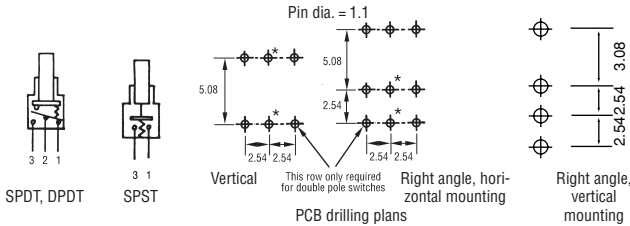
0.4VA @ 20V ac/dc



Vertical, single pole  
H = 17.75 (excl pins),  
W = 8.1, D = 5.0  
(273-429 = 8.1)

Right angle, single pole,  
horizontal mount  
H, excl. pins = 5.0, (273-430 = 9.1)  
W = 8.1, D = 18.18

Right angle, single pole,  
vertical mount  
H = 8.65, W = 5.0, D = 17.83



PCB drilling plans  
\* Pins only used on double throw (DT) switches

- Manufactured from polyester to **UL94V-0**
- Totally sealed by 'O' ring gasket inside the bushing
- Gold plated contacts allow low voltage switching
- Ideal for PCB designs, board washable, wave solderable
- Caps in 3 colours, 6.5mm dia., 4mm high

Initial contact resistance	10mΩ max	Electrical life:	2 position	100,000 ops
Insulation resistance	1000MΩ min		3 position	50,000 ops
Dielectric strength	1000V rms @ 50Hz	Operating force		220g
	Operating temperature			-20°C to +85°C

Mfrs. List No.

TP33P0080 = 150-542, TP32P0080 = 150-543, TP42P0080 = 273-429, TP33W0080 = 150-544,  
TP32W0080 = 150-545, TP42W0080 = 273-430, TP33WW080 = 607-460, TP32WW080 = 607-472,  
U572 = 146-241, U573 = 146-242, U576 = 146-243

SW153

Vertical	Order Code	Price Each				
		1+	25+	50+	100+	500+
SPST	.150-542					
SPDT	.150-543					
DPDT	.273-429					
<b>Right Angle, Horizontal Mounting</b>						
SPST	.150-544					
SPDT	.150-545					
DPDT	.273-430					
<b>Right Angle, Vertical Mounting</b>						
SPST	.607-460					
SPDT	.607-472					
<b>Order Multiple=10</b>						
Caps		10+	20+	50+	100+	
Black	.146-241					
Green	.146-242					
Red	.146-243					

### Subminiature Washable, Momentary

0.4VA @ 20V ac/dc



Vertical mounting Type 1 Horizontal mounting Type 2 Horizontal mounting

- Process sealed – withstands machine soldering and pressure wash processes
- Epoxy sealed terminals
- Gold contacts for low level/dry circuit switching

Electrical life	60,000 ops (30,000 SPDT versions)	Contact resistance	<20mΩ
		Operating temperature	-30°C to +85°C

FOR PCB DRILLING PLANS, SEE C + K WASHABLE PCB MOUNTING TOGGLE SWITCHES **PAGE 1481**

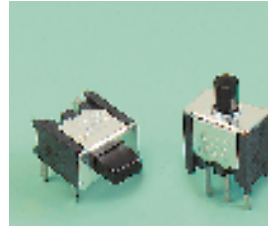
Mfrs. List No. EP11SD1ABE = 103-640, EP11SD1AVBE = 103-676, EP11SD1CBE = 103-615,  
EP12SD1CBE = 103-627, EP12SD1ABE = 103-652, EP12SD1AVBE = 103-688,

SW265

Vertical	Order Code	Price Each				
		1+	25+	50+	100+	500+
SPST – off-mom	<b>103-615</b>					
SPDT – off-mom	<b>103-627</b>					
<b>Type 1, Horizontal</b>						
SPST – off-mom	<b>103-640</b>					
SPDT – on-mom	<b>103-652</b>					
<b>Type 2, Horizontal</b>						
SPST – off-mom	<b>103-676</b>					
SPDT – on-mom	<b>103-688</b>					

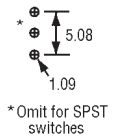
### Subminiature SPST Momentary - TP Series

0.4VA @ 20V dc

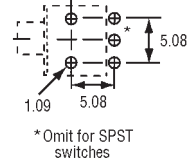


Square Actuator Round Actuator without Bush

- Square or round actuator options
- Gold contacts for low level switching



Vertical mounting  
H = 8.13, W = 5.23, D = 8.13  
Sealed: H = 9.14, W = 5.21, D = 8.13



Horizontal mounting  
H = 5.74, W = 8.13, D = 8.13  
Sealed: H = 6.38, W = 8.13, D = 9.14

Contact resistance	20mΩ max
Electrical life	60,000 ops
Dielectric strength	1000Vrms

Insulation resistance	1000MΩ @ 500V dc
Operating temperature	-30°C to +65°C

Mfrs. List No.

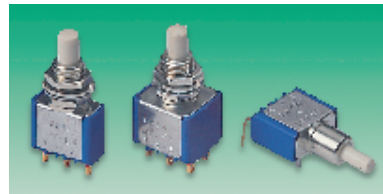
TPA11CGPCOFN = 958-955, TPA11FGPCOFN = 958-967, TPA11CGRA0FN = 958-979,  
TP11CGRA0FN = 958-943

SW333

	Order Code	Price Each				
		1+	25+	50+	100+	500+
<b>Square Actuator</b>						
SPST - horizontal	<b>958-943</b>					
<b>Round Actuator Without Bush</b>						
SPST - vertical	<b>958-955</b>					
SPDT - vertical	<b>958-967</b>					
SPST - horizontal	<b>958-979</b>					

### Miniature, Microswitch Action

SPDT and DPDT – Momentary – 100mA @ 30V dc



	607-563	607-575	607-587
H = 13.2, W = 7.0, D = 29.5	H = 13.2, W = 12.0, D = 29.5	H = 12.0, W = 13.2, D = 26.8	
5.08	6.5	2.2	
12.70	5.2		
4.70			
PCB drilling plan Pin dia. = 1.6	Panel cut-out		
Initial contact resistance	50mΩ max.	Electrical life	60,000 ops
Insulation resistance	1,000MΩ min.	Operating temperature	-30°C to +65°C
Dielectric strength	1000V rms @ 50Hz		

- Momentary snap-action for high precision and reliability
- Gold plated copper contacts for low level switching
- Panel mounting switches with solder lug terminals
- PCB mounting switch with right-angled terminals