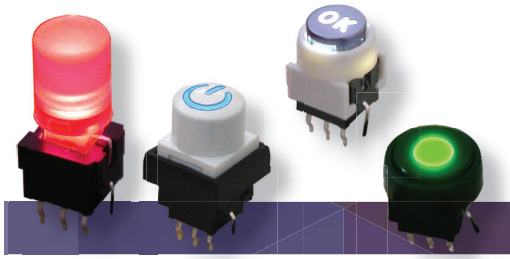


Illuminated Miniature Pushbutton

Specifications

Electrical Ratings	100mA @ 30VDC
Electrical Life	10,000 cycles typical
Contact Resistance	<50mΩ initial
Actuation Force	250 ± 100gF
Actuation Travel	Total travel : 1.5mm Travel to lock : 1.0mm

Dielectric Strength	500Vrms min
Insulation Resistance	>100MΩ min
Operating Temperature	-40ºC to 85ºC
Storage Temperature	-40ºC to 85ºC

Materials

Actuator	6/6 Nylon
Frame	6/6 Nylon
Cover	6/6 Nylon
Base	9T Nylon
Caps	PC and PBT
Contacts	Phosphor Bronze, Silver Plated
Terminals	Brass, Silver Plated

LED Characteristics

LED Ratings		Color						
		R	Y	G	B	PG	W	Units
Reverse Voltage	V_R	5	5	5	5	5	5	V
Forward Current (avg)	I_F	30	30	30	30	30	30	mA
Forward Current (peak)	I_{FS}	120	125	125	125	125	125	mA
Reverse Current V_R = 5V	I_R	10	10	10	10	10	10	µA
Power Dissipation	P_T	75	78	75	114	108	114	mW
Operating & Storage Temperature	T_A	-40 ~ +85						ºC
Forward Voltage (typ) I_F = 20mA	V_F	2.1	2.1	2.0	3.3	3.1	3.3	V
Forward Voltage (max) I_F = 20mA	V_F	2.6	2.6	2.5	3.8	3.6	3.8	V
Wavelength at Peak Emmission, I_F = 20mA	λ_P	660	585	572	460	515	n/a	nm
Spectral Line Half-Width, I_F = 20mA	$\Delta\lambda$	25	37	20	30	33	n/a	nm
Luminous Intensity, I_F = 20mA	LI	50	10	60	120	700	800	mcd
Viewing Angle	Θ	120	120	120	120	120	120	deg

Ordering Information

1. Series	BT	N	R	C	X	N	
BT							

2. Switch Function
- N = Momentary
- L = Latching

3. LED Colors
- X = No LED
- R = Red
- Y = Yellow
- G = Green
- PG = Pure Green
- B = Blue
- W = White
- RY = Red/Yellow Dual LED
- RG = Red/Green Dual LED
- RB = Red/Blue Dual LED
- YG = Yellow/Green Dual LED
- YB = Yellow/Blue Dual LED
- GB = Green/Blue Dual LED

4. Frame Options
- C = No Frame
- R1 = Round frame for use with D & E cap styles
- R2 = Round frame for use with F & H cap styles
- S1 = Square frame for use with A, B & G cap styles
- S2 = Square frame for use with C cap style

5. Frame Color
- X = No Frame
- K = Black

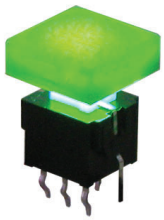
6. Cap Style
- N = No Cap
- A = Available in colors 1, 1T, 1O, 2O, 3, 3T, 4, 4T, 5, 5T, 7, 7T, 0, MS
- B = Availabe in color 2O
- C = Available in colors 1, 1T, 1O, 2O, 3, 3T, 4, 4T, 5, 5T, 7, 7T, 0, MS
- D = Available in colors 1, 1T, 1O, 2O, 3, 3T, 4, 4T, 5, 5T, 7, 7T, 0, MS
- E = Available in color 2O
- F = Available in colors 1, 1t, 1O, 2O, 3, 3T, 4, 4T, 5, 5T, 7, 7T, 0, MS
- G = Available in colors 1O, 2O, 3T, 4T, 5T, 7T, 0, MS
- H = Available in colors 3T, 4T, 5T, 7T, 0

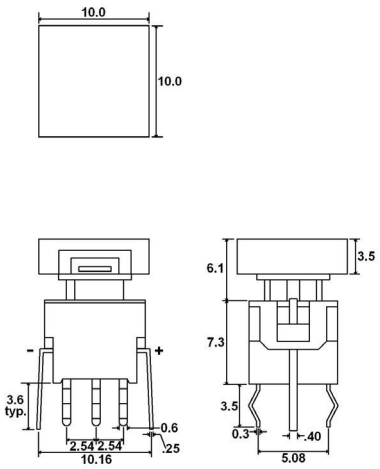
7. Cap Colors
- 1 = White semi-transparent
- 1T = White transparent
- 1O = White opaque for use with laser etching
- 2O = Black opaque for use with laser etching or B & E style caps
- 3 = Red semi-transparent
- 3T = Red transparent
- 4 = Yellow semi-tranparent
- 4T = Yellow transparent
- 5 = Green semi-transparent
- 5T = Green transparent
- 7 = Blue semi-transparent
- 7T = Blue transparent
- 0 = Clear semi-tranparent
- MS = Misty Silver, opaque, for use with laser etching

8. Laser Etching Styles
- Blank = No etching

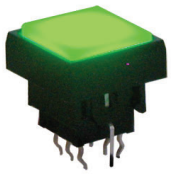
A	F
B	G
C	H
D	I
E	J

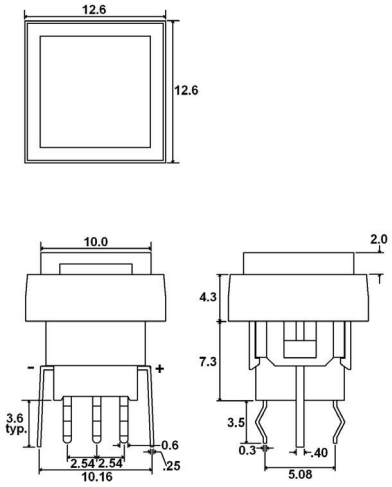
Dimensions



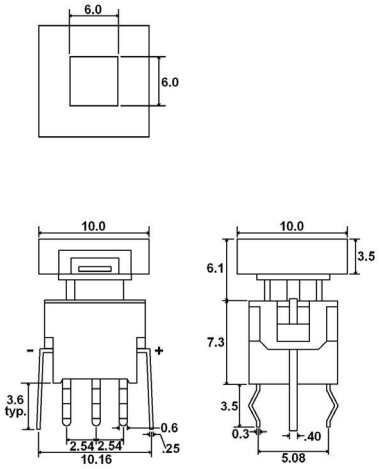


A Style Cap without Frame

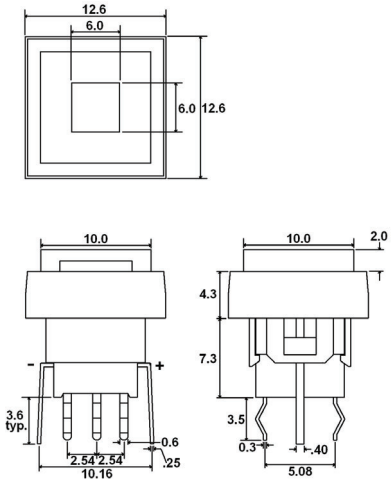




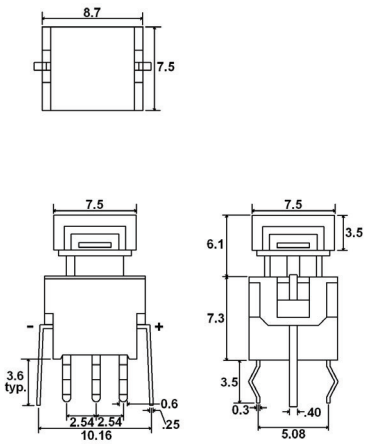
A Style Cap with S1 Frame



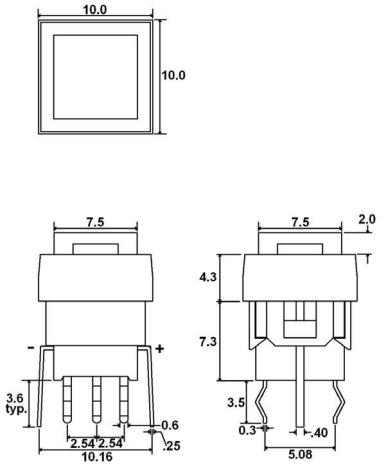
B Style Cap without Frame



B Style Cap with S1 Frame

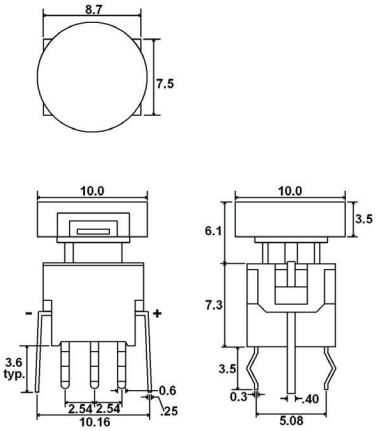


C Style Cap without Frame

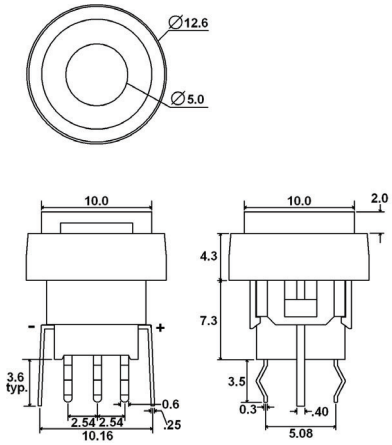


C Style Cap with S2 Frame

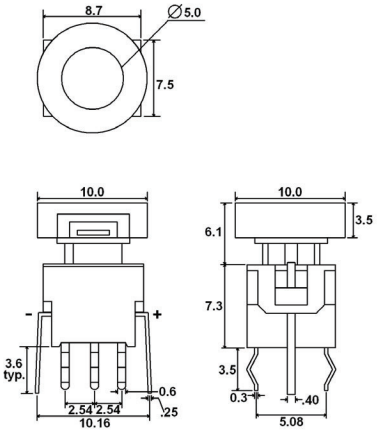
Dimensions



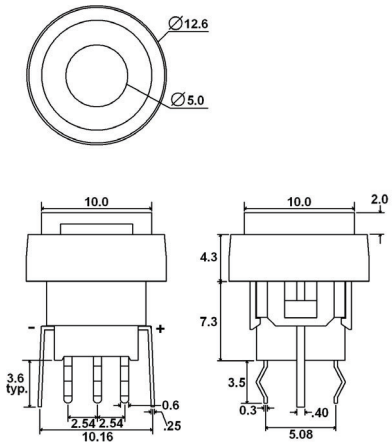
D Style Cap without Frame



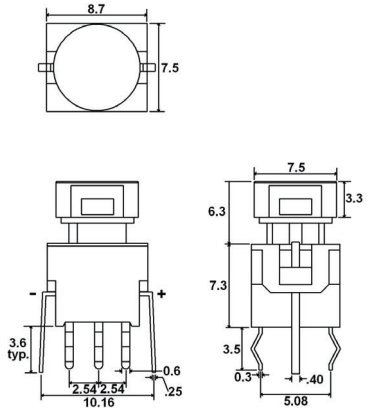
D Style Cap with R1 Frame



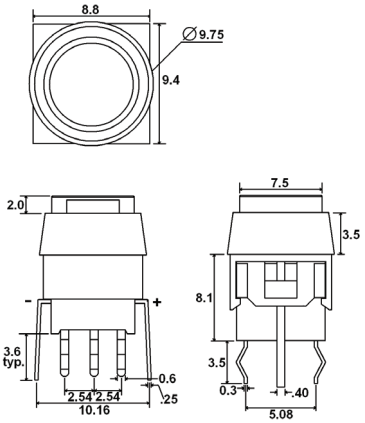
E Style Cap without Frame



E Style Cap with R1 Frame

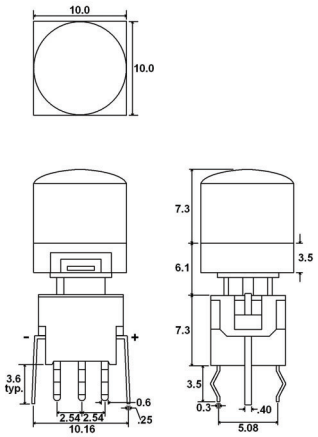


F Style Cap without Frame

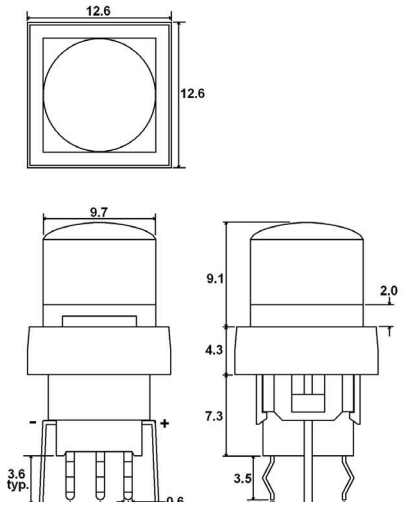


F Style Cap with R2 Frame

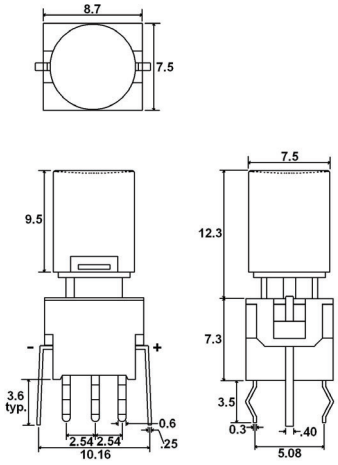
Dimensions



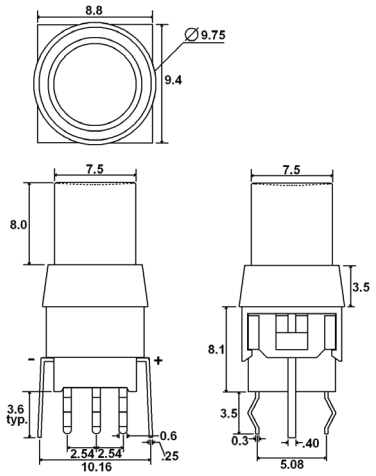
G Style Cap without Frame



G Style Cap with S1 Frame

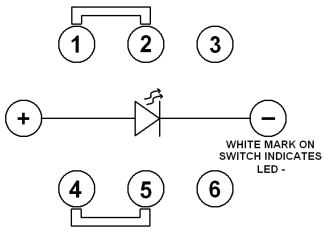


H Style Cap without Frame

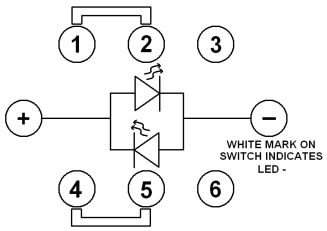


H Style Cap with R2 Frame

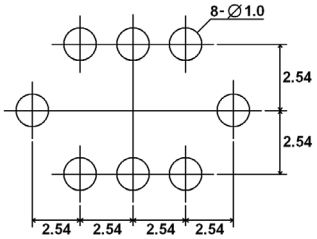
Schematics & PC Layout



Single Color LED



Dual Color LED



Dimensions are shown for reference purposes only.
Specifications and availability subject to change without notice.
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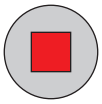
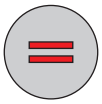
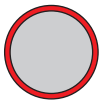
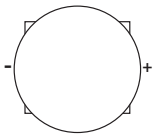
Laser Etching Styles

				
A	***B***	***C***	***D***	***E***
				
F	***G***	***H***	***I***	***J***



All laser etching styles will be orientated with the + terminal located on the right hand side with respect to the legend.