





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

Dielectr	ic Strength	500Vrms min
Insulation	on Resistance	>100MΩ min
Operati	ng Temperature	-40°C to 85°C
Storage	Temperature	-40°C to 85°C

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

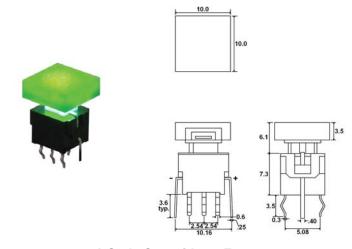
LED Ratings		Color						
		R	Υ	G	В	PG	W	Units
Reverse Voltage	V _R	5	5	5	5	5	5	V
Forward Current (avg)	I _F	30	30	30	30	30	30	mA
Forward Current (peak)	I _{FS}	120	125	125	125	125	125	mA
Reverse Current V _R = 5V	I _R	10	10	10	10	10	10	μA
Power Dissipation	P _T	75	78	75	114	108	114	mW
Operating & Storage Temperature	T _A	-40 ~ +85			°C			
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	Δλ	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

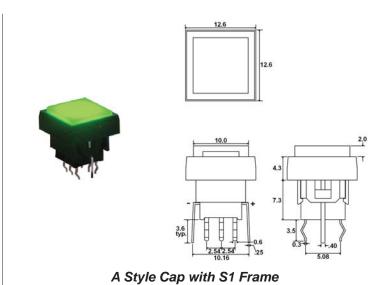


Ordering Information								
1. Series BT	N	R	С	Х	N			
Switch Function N = Momentary L = Latching								
3. LED Colors X = No LED R = Red Y = Yellow G = Green PG = Pure Green B = Blue W = White	RG = Red/G RB = Red/Bl YG = Yellow LED YB = Yellow/							
4. Frame Options C = No Frame R1 = Round frame for use w R2 = Round frame for use w S1 = Square frame for use v S2 = Square frame for use v	ith F & H cap sty vith A, B & G cap	les						
5. Frame Color X = No Frame K = Black								
6. Cap Style N = No Cap A = Available in colors 1, 1T, B = Available in color 2O C = Available in colors 1, 1T, D = Available in colors 1, 1T, E = Available in color 2O F = Available in colors 1, 1t, G = Available in colors 1O, 2 H = Available in colors 3T, 4	10, 20, 3, 3T, 4 10, 20, 3, 3T, 4 10, 20, 3, 3T, 4 20, 3T, 4T, 5T, 7T	4T, 5, 5T, 7, 7T, 4T, 5, 5T, 7, 7T,	T, 0, MS T, 0, MS					
7. Cap Colors 1 = White semi-transparent 1T = White transparent 10 = White opaque for use of the semi-transparent 20 = Black opaque for use of the semi-transparent 3T = Red semi-transparent 4 = Yellow semi-transparent 4T = Yellow transparent 5 = Green semi-transparent 5T = Green transparent 7 = Blue semi-transparent 7T = Blue transparent 0 = Clear semi-transparent MS = Misty Silver, opaque, for	vith laser etching	or B & E style o	caps					
8. Laser Etching Styles Blank = No etching A F B G C H D I E J								

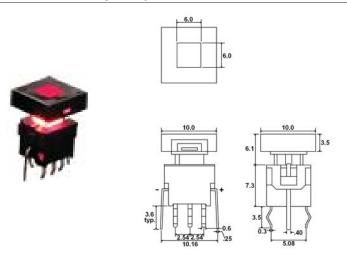


Dimensions



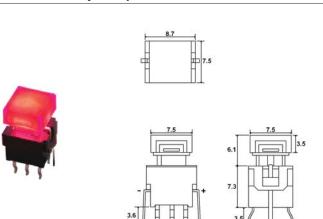


A Style Cap without Frame



B Style Cap with S1 Frame

B Style Cap without Frame

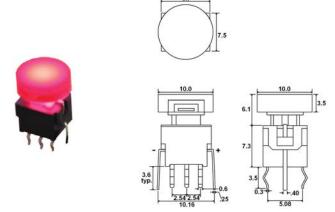


C Style Cap without Frame

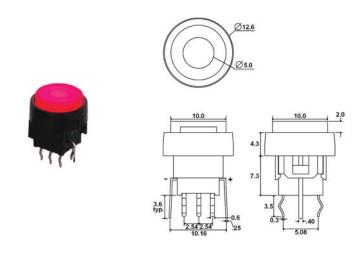
C Style Cap with S2 Frame



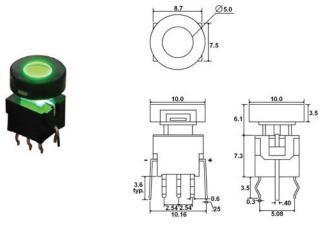
Dimensions



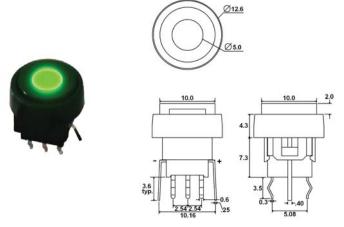
D Style Cap without Frame



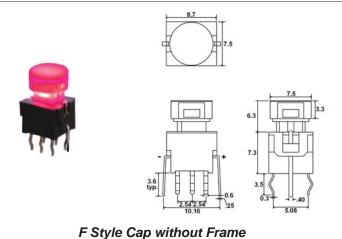
D Style Cap with R1 Frame



E Style Cap without Frame



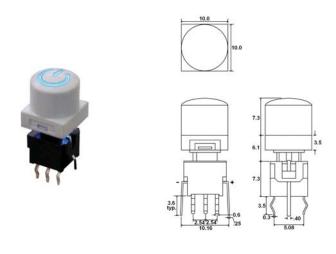
E Style Cap with R1 Frame



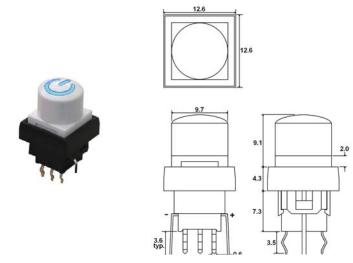
F Style Cap with R2 Frame



Dimensions

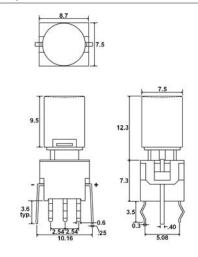


G Style Cap without Frame

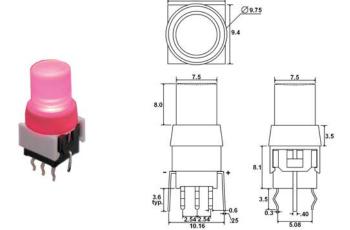


G Style Cap with S1 Frame



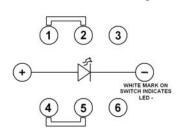


H Style Cap without Frame

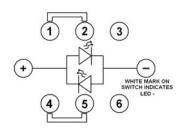


H Style Cap with R2 Frame

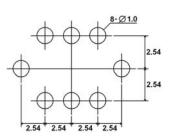
Schematics & PC Layout



Single Color LED



Dual Color LED





Laser Etching Styles

ON	OFF			(d)
A	В	С	D	E
				ОК
F	G	Н	1	J



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