

SPECIFICATIONS

Electrical Ratings	50mA @ 48VDC
Electrical Life	100,000 cycles typical
Contact Resistance	< 50 mΩ initial
Actuation Force	160 +/- 50gF
Actuator Travel	.25 +/- .1mm
Dielectric Strength	500Vrms min
Insulation Resistance	> 100MΩ min
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C



MATERIALS ←RoHS COMPLIANT

Actuator	6/6 Nylon (Through Hole); 9T Nylon (SMD)
Housing	6/6 Nylon (Through Hole); 6T Nylon (SMD)
Cap	6/6 Nylon (Through Hole); 6/6 Nylon 33% GF(SMD)
Frame	6/6 Nylon (Through Hole); 6/6 Nylon 33% GF(SMD)
Contacts	Stainless Steel, Silver Plated
Terminals	Brass, Silver Plated

ORDERING INFORMATION

1. Series: CL1200 CL1200V (Right angle) CL1200S (Surface Mount)	CL1200	A	2	2	R	G
2. Cap Style: Blank = No Cap A = Square Cap A1 = Square Cap without LED hole B = Round Cap B1 = Round Cap without LED hole						
3. Frame Color: **Frame not available with CL1200V C = No Frame 2 = Black 9 = Gray						
4. Cap Color: Blank = No Cap 2 = Black 3 = Red 4 = Yellow 5 = Green 9 = Gray						
5. First LED Color: N = No LED R = Red G = Green Y = Yellow B = Blue W = White O = Orange	**Super Bright LEDs Not Available in Bi-color RS = Super Bright Red GS = Super Bright Green YS = Super Bright Yellow					
						6. Second LED Color: **For Bi-color LED Option Blank = No Second LED R = Red G = Green Y = Yellow B = Blue **White & Orange not available in bi-color

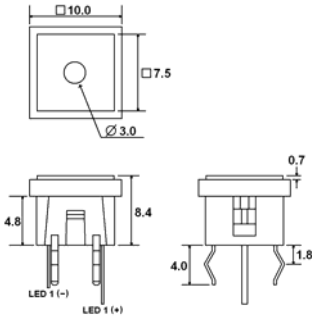
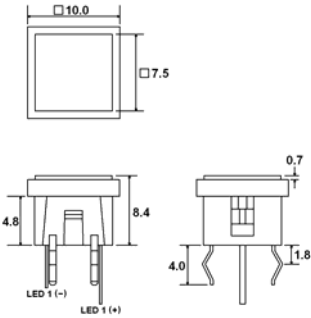
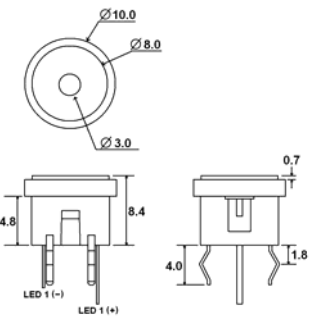
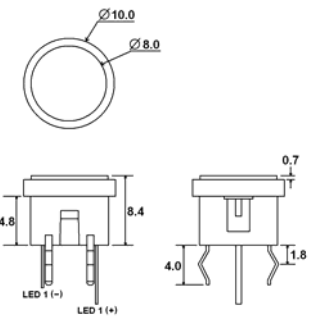
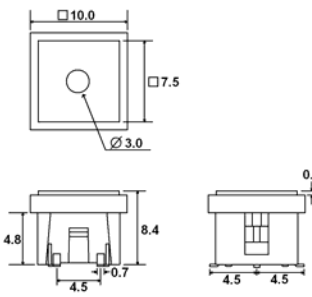
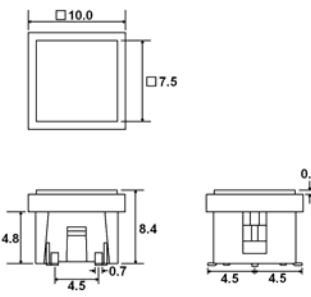
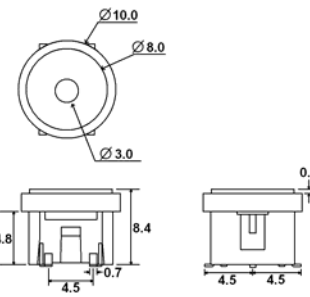
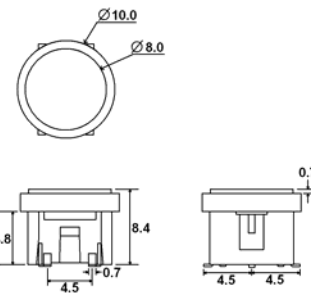
DIMENSIONS – NO FRAME & NO CAP

CL1200	CL1200V - RIGHT ANGLE	CL1200S – SURFACE MOUNT
----------------------	-------------------------------------	---------------------------------------

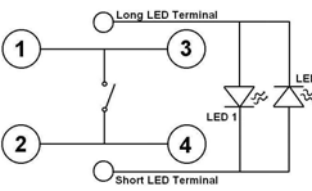
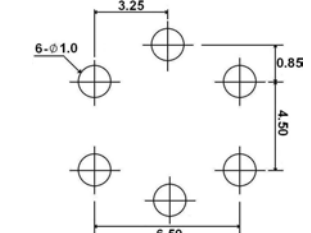
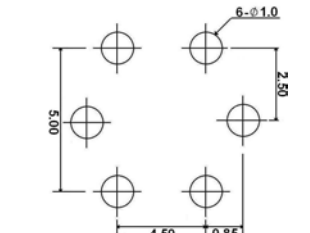
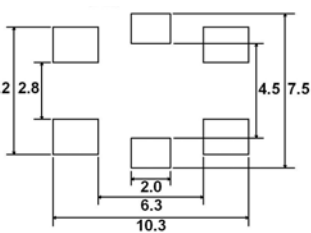
DIMENSIONS – CAP OPTIONS WITH NO FRAME, BY TERMINATION STYLE

A – CAP	A1 – CAP	B – CAP	B1 – CAP
A – CAP	A1 – CAP	B – CAP	B1 – CAP
A – CAP	A1 – CAP	B – CAP	B1 – CAP

DIMENSIONS – CAP OPTIONS WITH FRAME, BY TERMINATION STYLE

 A – CAP	 A1 – CAP	 B – CAP	 B1 – CAP
 A – CAP	 A1 – CAP	 B – CAP	 B1 – CAP

SCHEMATICS & PC LAYOUTS

 SINGLE / DUAL COLOR LED	 THROUGH HOLE	 RIGHT ANGLE	 SMT
---	--	--	---

LED SPECIFICATIONS

LED Ratings		Value									Units
		R	G	Y	B	W	O	RS	GS	YS	
Reverse Voltage	V _R	5	5	5	5	5	5	5	5	5	V
Forward Current (avg)	I _F	30	30	30	30	30	30	30	30	30	mA
Forward Current (peak)	I _{FS}	125	125	125	125	125	125	125	125	125	mA
Reverse Current V _R = 5V	I _R	10	10	10	10	10	10	10	10	10	μA
Power Dissipation	P _T	69	81	78	120	120	75	75	75	75	mW
Operating & Storage Temperature	T _A	-40~ +85									°C
Forward Voltage (typ.), I _F = 20mA	V _F	1.8	2.2	2.1	3.5	3.5	2.0	2.0	2.0	2.0	V
Forward Voltage (max.), I _F = 20mA	V _F	2.3	2.7	2.6	4.0	4.0	2.5	2.5	2.5	2.5	V
Wavelength at Peak Emmission, I _F = 20mA	λ _P	660	565	585	460	N/A	610	630	572	590	nm
Spectral Line Half-Width, I _F = 20mA	Δλ	24	32	37	40	N/A	35	20	20	20	nm
Luminous Intensity, I _F = 20mA	LI	130	65	45	200	60	50	1120	525	1550	mcd
Viewing Angle	Θ	20	20	20	20	165	20	20	20	20	Deg