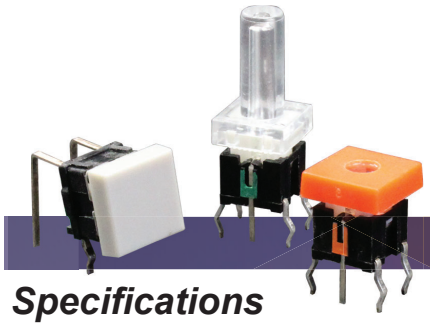


CIT Relay & Switch

CL1200

Illuminated Tactile

Specifications

Electrical Ratings	50mA @ 48VDC
Electrical Life	100,000 cycles typical
Contact Resistance	<50mΩ initial
Actuation Force	160 ± 50gF
Actuation Travel	.25 ± .1mm

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

Materials

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

Ordering Information

1. Series	CL1200	A	2	2	R	G

CL1200
CL1200S SMD
CL1200V Right Angle

2. Cap Style
Blank = No Cap
A = Square Cap
A1 = Square Cap without LED hole
B = Round Cap
B1 = Round Cap without LED hole
C = Round Cap
D = Round Cap
E = Round Cap
F = Round Cap

3. Frame Color *Frame not available with CL1200V or RGB LED*
C = No Frame
2 = Black
9 = Gray

4. Cap Color A, A1, B & B1
Blank = No Cap
2 = Black
3 = Red
4 = Yellow
5 = Green
9 = Gray

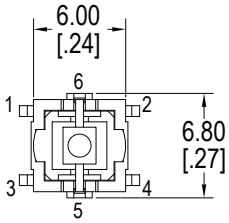
Cap Color C,D, E & F
0 = Clear Semi-Transparent

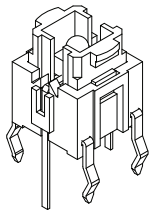
5. First LED Color
N = No LED
R = Red
G = Green
Y = Yellow
B = Blue
W = White
O = Orange
RGB - RBG LED - *Not available with A, B or B1 caps; Not available with CL1200V*

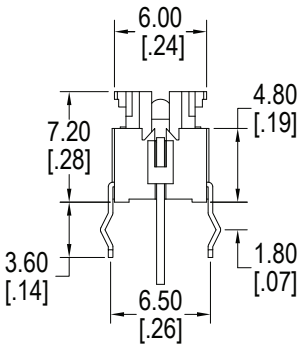
6. Second LED Color *For bi-color LED option; white, orange and RGB not available in bi-color*
Blank = No second LED
R = Red
G = Green
Y = Yellow
B = Blue

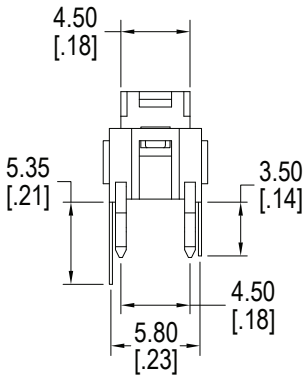
Dimensions

CL1200 for Cap A, A1, B & B1, Through-Hole

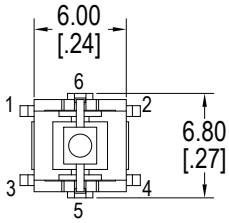


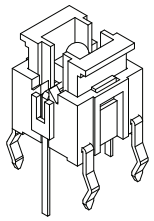


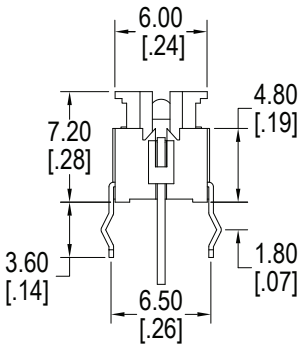


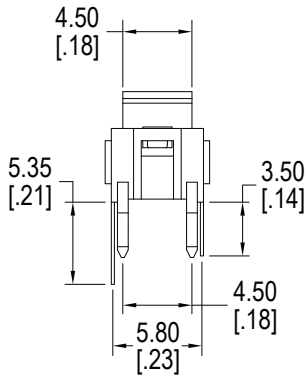


CL1200 for Cap C, D, E & F, Through-Hole

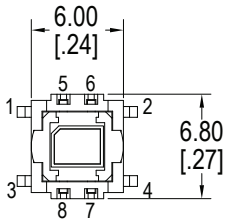


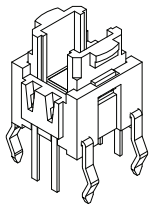


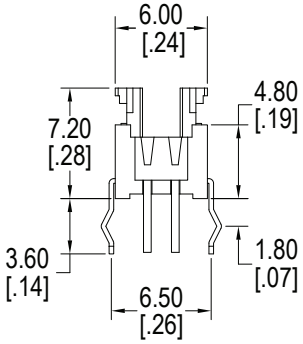


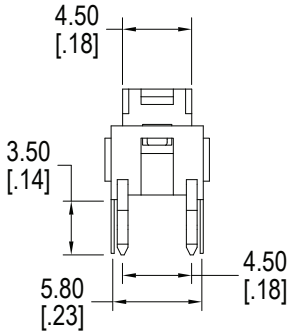


CL1200 for Cap A, A1, B & B1 with RGB LED, Through-Hole

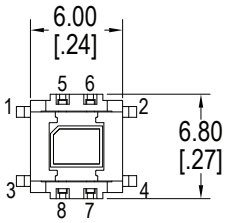


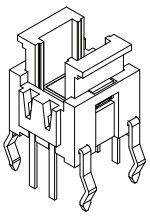


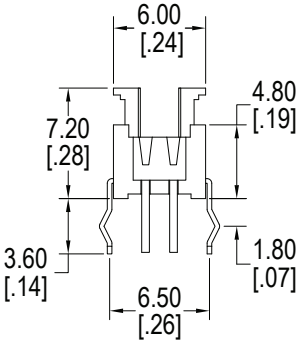


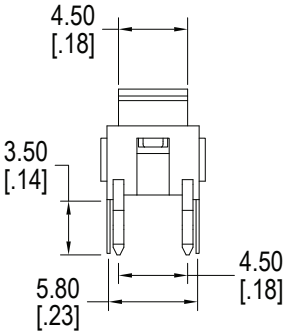


CL1200 for Cap C, D, E & F with RGB LED, Through-Hole



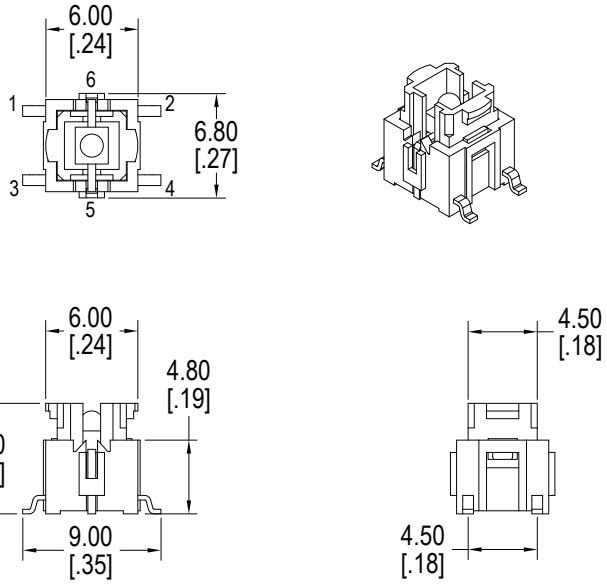




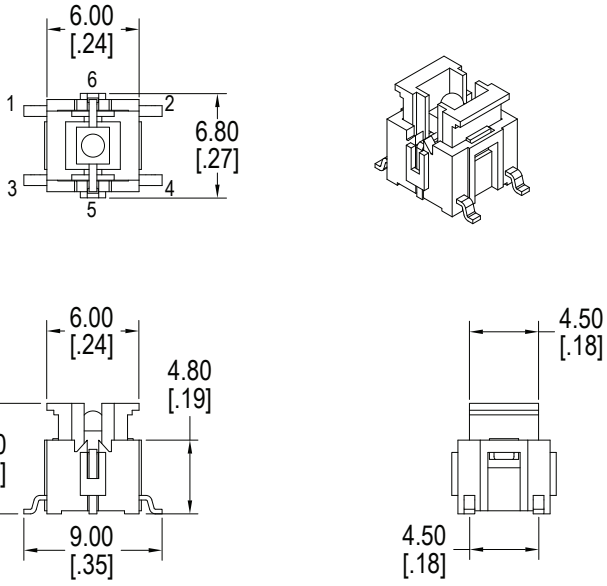


Dimensions

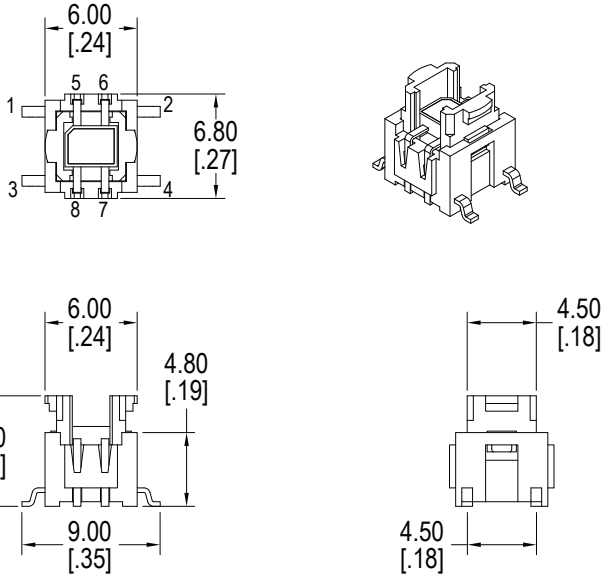
CL1200S for Cap A, A1, B & B1, Surface Mount



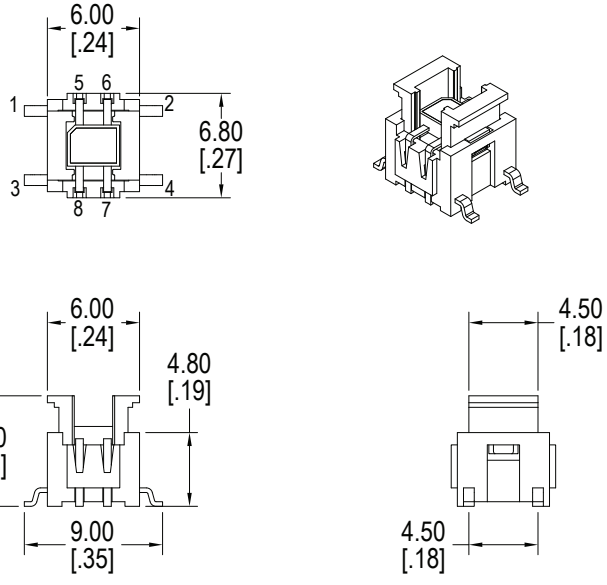
CL1200S for Cap C, D, E & F, Surface Mount



CL1200S for Cap A, A1, B, & B1 with RGB LED, Surface Mount

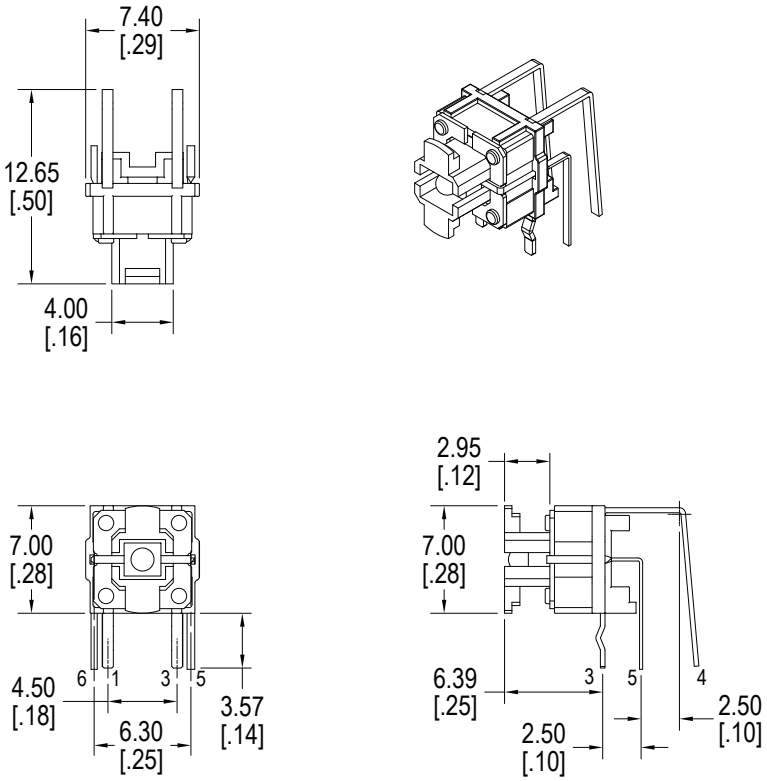


CL1200S for Cap C, D, E & F with RGB LED, Surface Mount



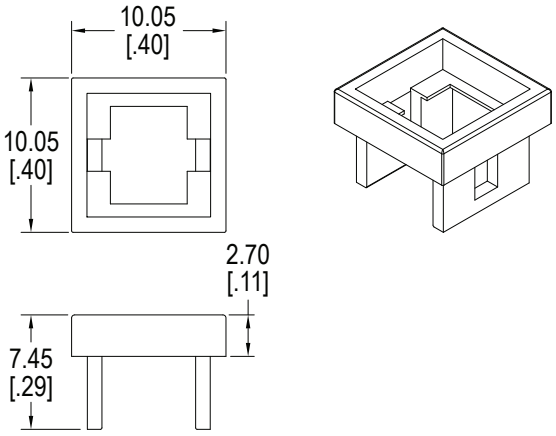
Dimensions

CL1200V for Cap A, A1, B & B1, Right Angle, Through-Hole

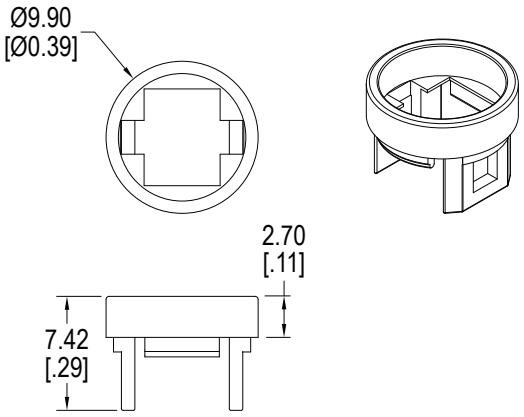


Dimensions - Frames

A Style

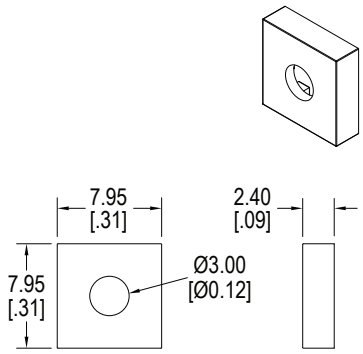


B Style

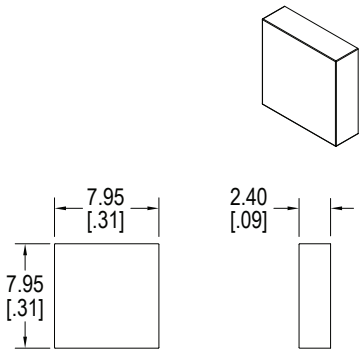


Dimensions - Caps

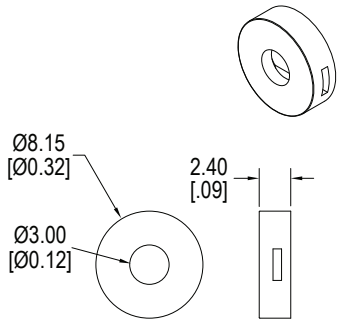
A Style



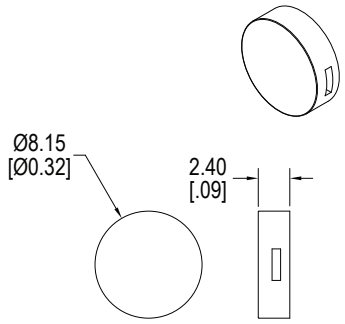
A1 Style



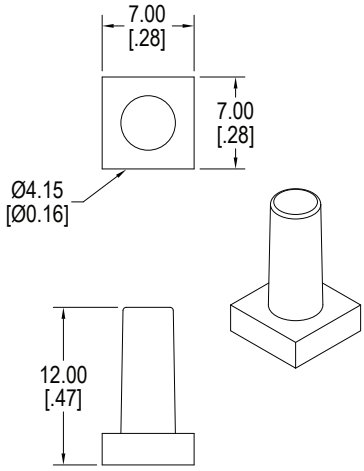
B Style



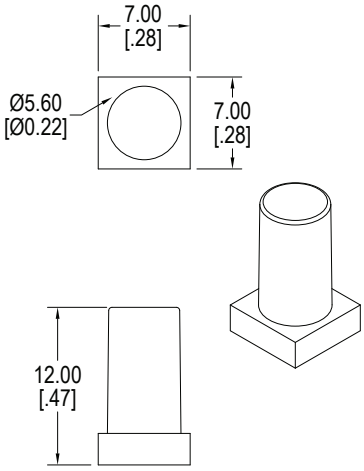
B1 Style



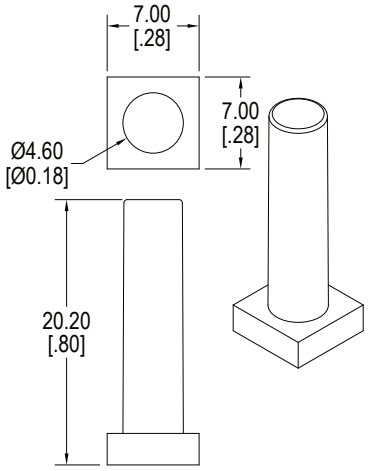
C Style



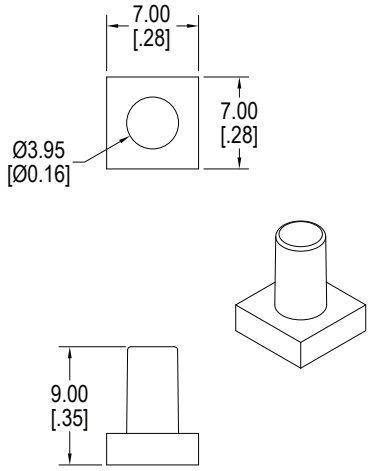
D Style



E Style

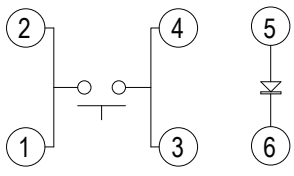


F Style

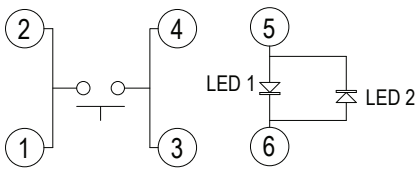


Schematics

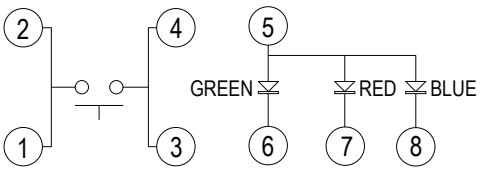
Single LED



Dual LED

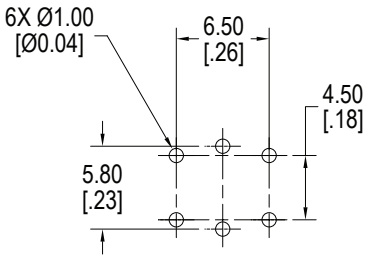


RGB LED

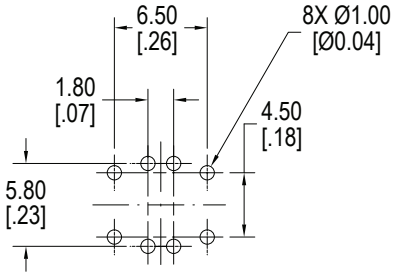


PC Layout

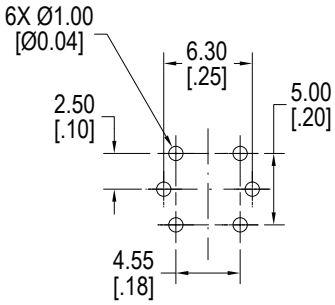
Through-Hole



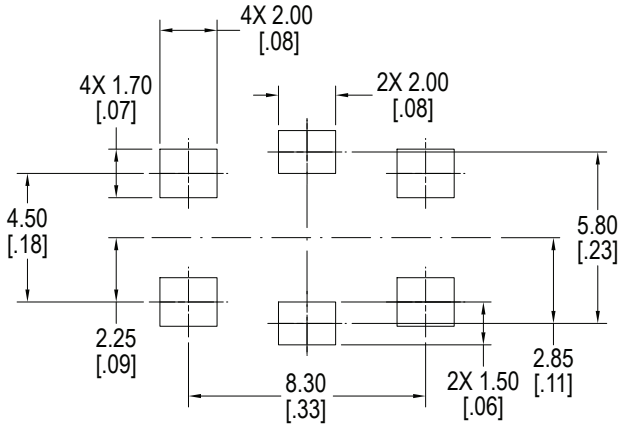
Through-Hole RGB



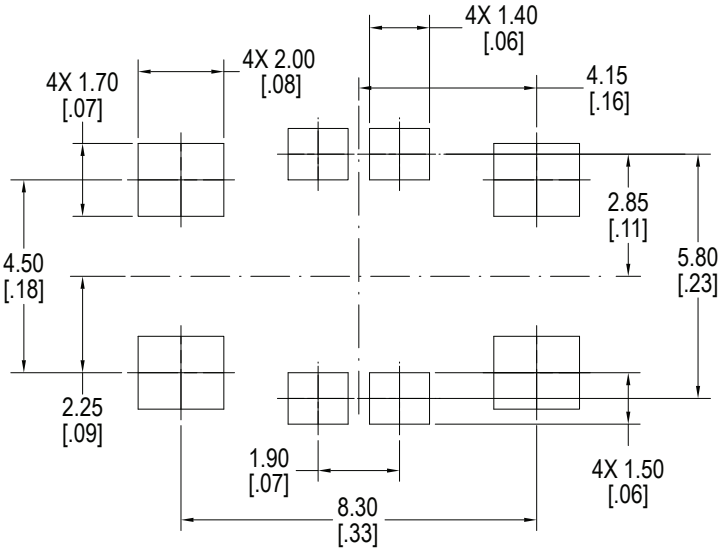
Right Angle Through-Hole



Surface Mount



Surface Mount RGB



LED Characteristics

LED Ratings		B	W	O	R	G	Y	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}	125	125	125	185	150	125	mA
Reverse Current V_R = 5V	I_R	10	10	10	10	10	10	µA
Power Dissipation	P_T	120	120	75	75	75	75	mW
Operating & Storage Temperature	T_A	-40 ~ +85						ºC
Forward Voltage (typ) I_F = 20mA	V_F	3.5	3.5	2.0	2.0	2.1	2.0	V
Forward Voltage (max) I_F = 20mA	V_F	4.0	4.0	2.5	2.5	2.5	2.5	V
Wavelength at Peak Emmission, I_F = 20mA	λ_P	460	n/a	610	650	574	590	nm
Spectral Line Half-Width, I_F = 20mA	$\Delta\lambda$	40	n/a	610	28	20	590	nm
Luminous Intensity, I_F = 20mA	LI	200	60	50	1800	800	1550	mcd
Viewing Angle	Θ	20	165	20	20	20	20	deg