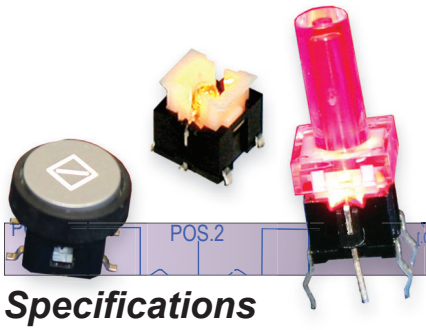


CIT Relay & Switch

RoHS COMPLIANT

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

1. Series
   - CL1200
   - CL1200V Right Angle
   - CL1200S SMD

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

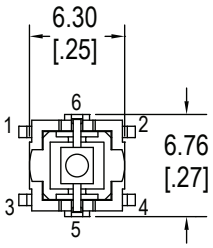
4. Cap Color A, A1, B & B1
   - Blank = No Cap
   - 2 = Black
   - 3 = Red
   - 4 = Yellow
   - 5 = Green
   - 9 = Gray

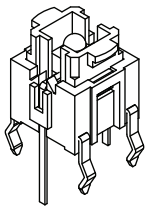
   Cap Color C,D, E & F
   - 0 = Clear Semi-Transparent

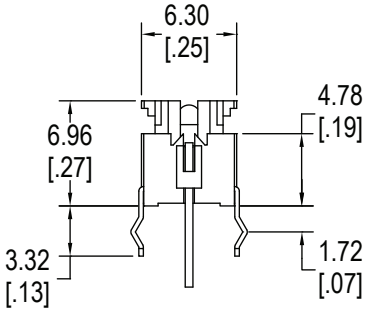
5. First LED Color
   - N = No LED
   - R = Red
   - G = Green
   - Y = Yellow
   - B = Blue
   - W = White
   - O = Orange
   - RGB - RBG LED - *Not available with A, B or B1 caps; Not available with CL1200V*

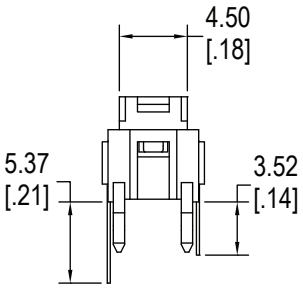
6. Second LED Color *For bi-color LED option; white, orange and RGB not available in bi-color*
   - Blank = No second LED
   - R = Red
   - G = Green
   - Y = Yellow
   - B = Blue

Dimensions

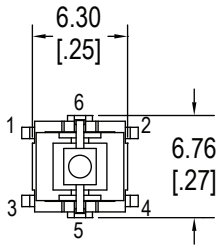


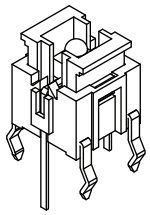


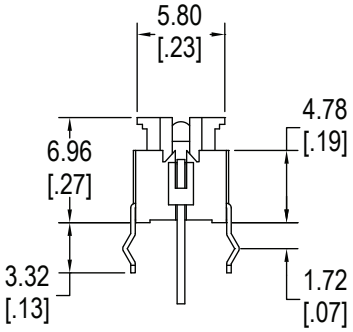


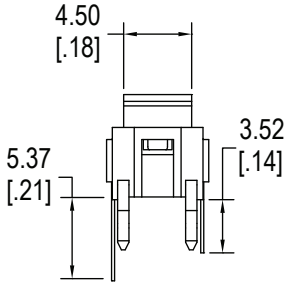


CL1200 for Cap A, A1, B & B1

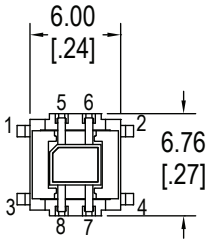


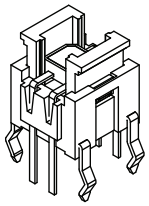


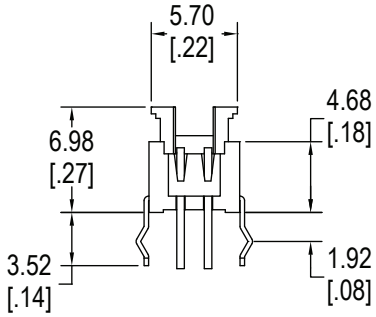


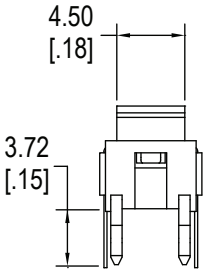


CL1200 for Cap C, D, E & F



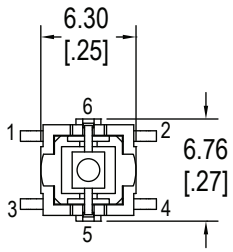


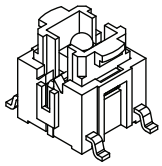


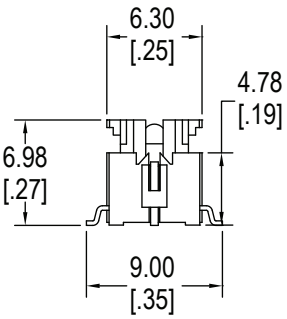


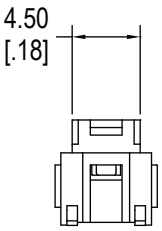
CL1200 for Cap A1, C, D, E & F with RGB LED

Dimensions

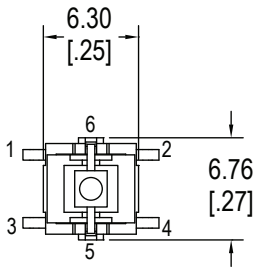


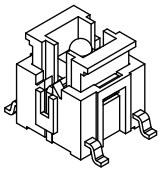


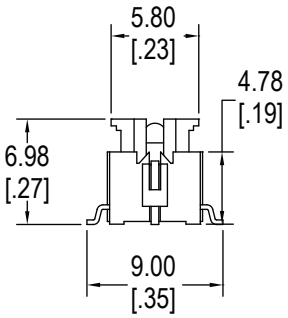


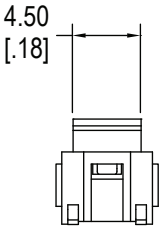


CL1200S for Cap A, A1, B & B1

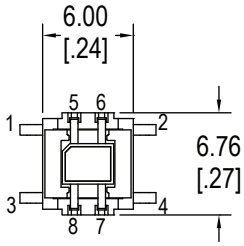


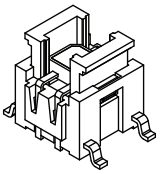


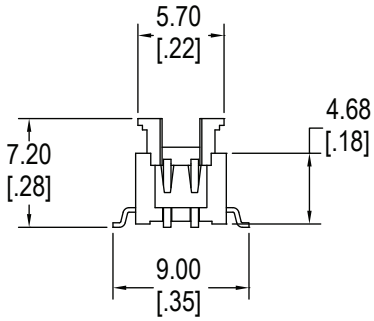


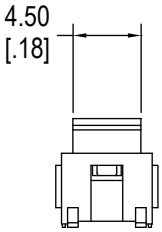


CL1200S for Cap C, D, E & F



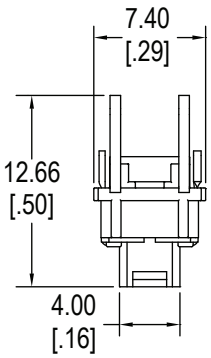


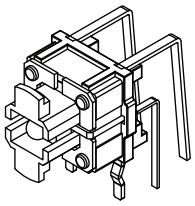


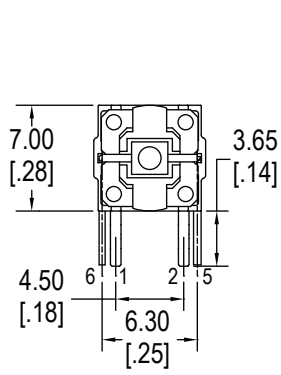


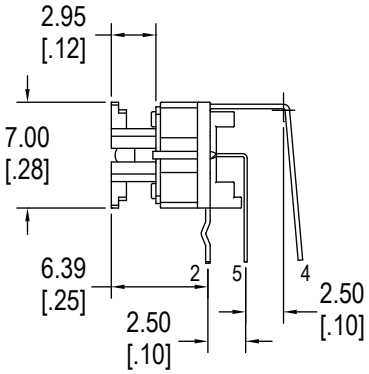
CL1200S for Cap A1, C, D, E & F with RGB LED

Dimensions



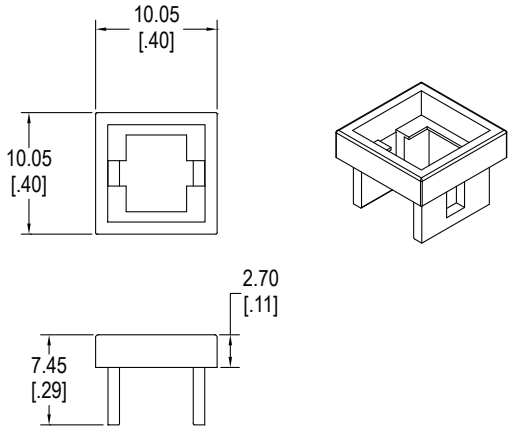




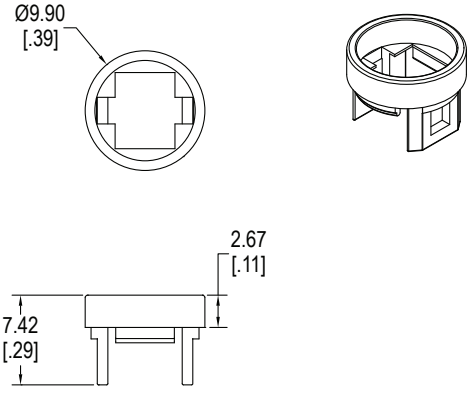


CL1200V

Dimensions - Frames

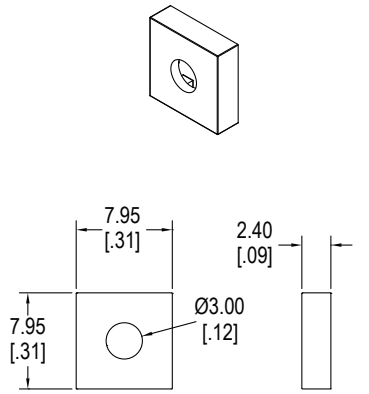


A

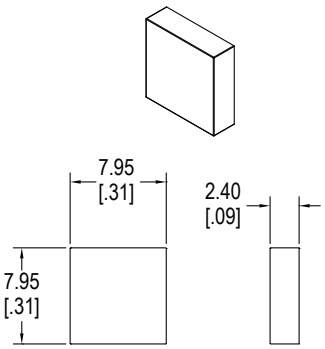


B

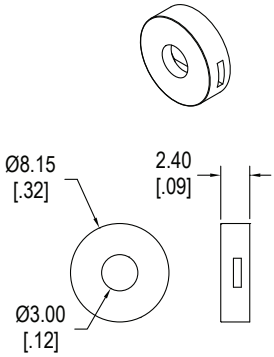
Dimensions - Caps



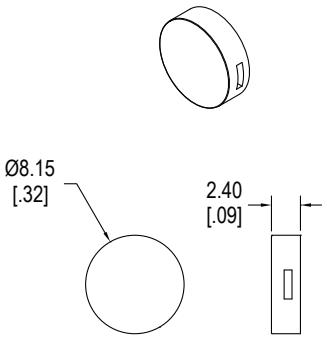
A



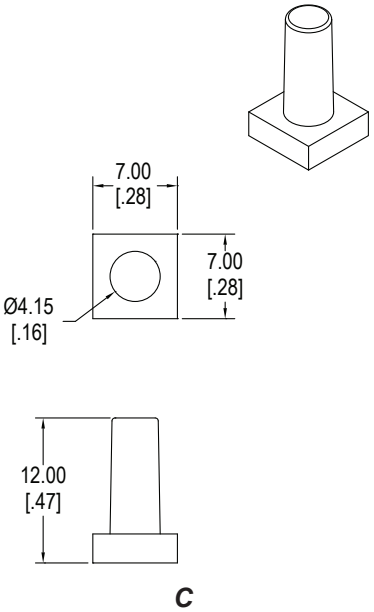
A1



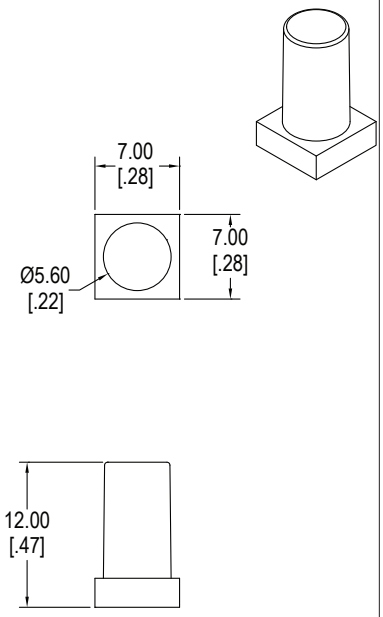
B



B1



C



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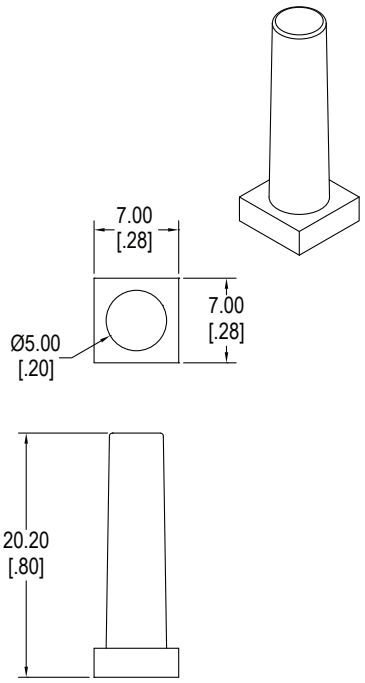
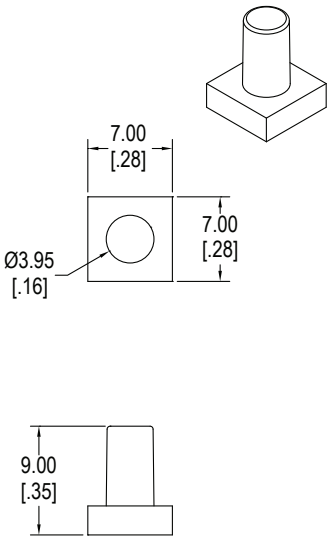
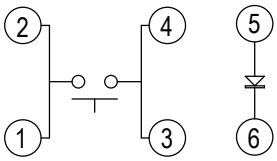


E

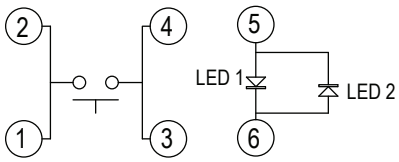


F

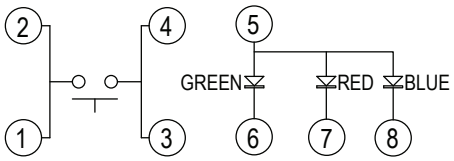
Schematics



1 LED

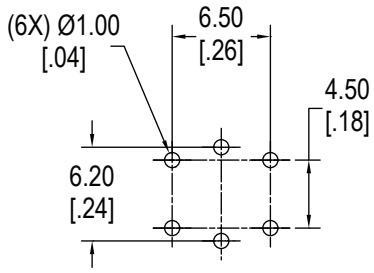


Dual LED

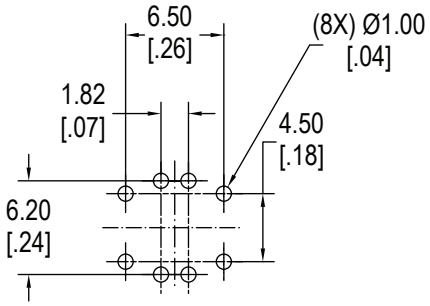


RGB LED

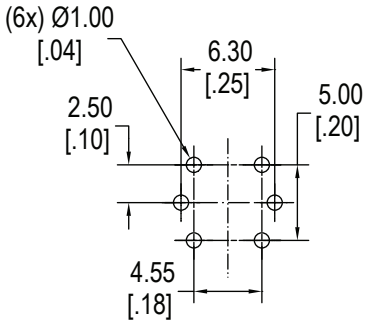
PC Layout



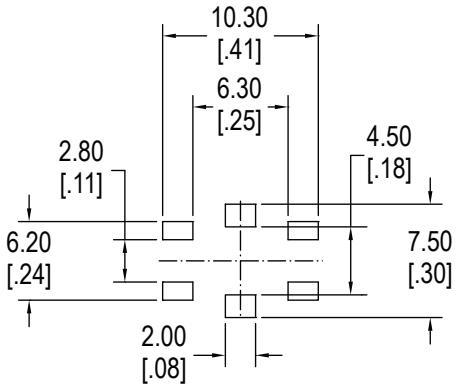
Thru Hole



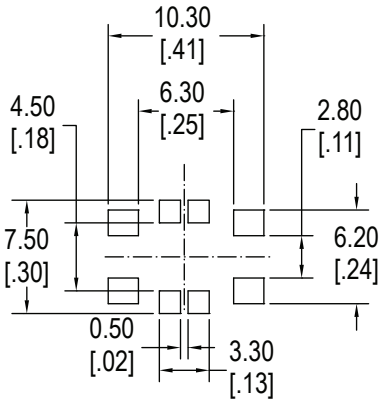
Thru Hole RGB



Right Angle



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