

SPECIFICATIONS

Electrical Ratings	50mA @ 35VDC
Electrical Life	100,000 cycles typical
Contact Resistance	< 50 mΩ initial
Actuation Force	130 +/- 50gF
Actuator Travel	.50 +/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

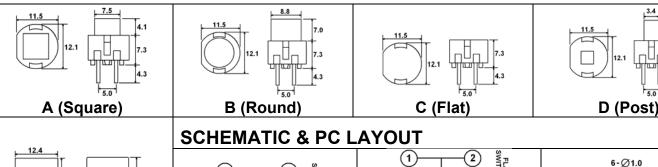
Cover	PC
Base	Valox
Contacts	Copper Alloy, Silver Plated
Terminals	Copper Alloy, Silver Plated

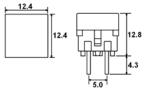
ORDERING INFORMATION

4 Carias	011				A	140	
1. Series:	SH	В	L	В	Α	MS	
SH Outlines							
2. Actuator Options:							
A - Square							
B - Round							
C - Flat							
D - Post							
E - Large Square Cap							
3. Actuator Colors:							
Non-illuminated Actuator Color (ated Actuator O					
1 = White 5 = Green		Option – Clear					
2 = Black 6 = Orange			Laser Etching Style				
3 = Red 7 = Blue	**LED or	nly available with	A, B & E actuators				
4 = Yellow 8 = Dark Gray							
9 = Beige							
4. LED Colors: Bicolor LED	Colors:						
Blank = No LED RG = Red/Gr	een						
R = Red RY = Red/Ye	llow						
G = Green YG = Yellow/	Green						
Y = Yellow BG = Blue/Gr	een						
B = Blue BR = Blue/Re	ed						
W = White BY = Blue/Ye	llow						
5. Laser Etching Styles:	**Laser etching sty	les are only avail	able with the A or B actu	uator.	A colored		
Blank = No Laser Etching Style			laser etched to allow th	e LED	to shine		
A F	through the pattern	1.					
B G							
СН							
D J							
E K							
6. Laser Etching Colors:	** A colored film is	applied to the ac	tuator and is laser etche	ed to al	llow the star	ndard	
Blank = No Laser Etching Color			hine through the pattern		now the star	luuru	
MS =Misty Silver	color or the detaute		inio un ough the putton				
BS = Bright Silver							
BG = Bright Gold							
-							
7. Caps:	Cap Color	rs:					
Blank = No Cap C15 C22							
C11 C16 C26		Options for color					
C12 C17 C27	** Caps ava	ailable with D act	uator only				
C13 C18 C28							
C14 C19							

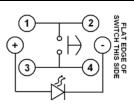


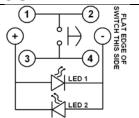
DIMENSIONS

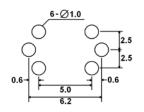




E (Square Cap)



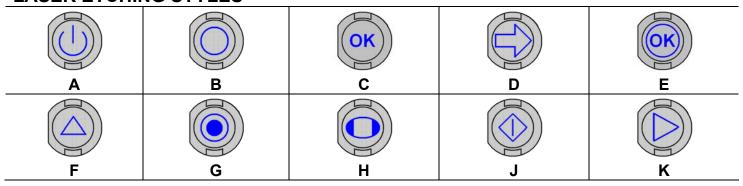




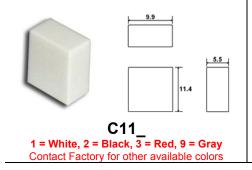
LED SPECIFICATIONS

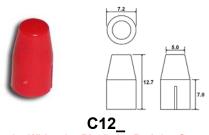
LED Ratings		R	G	Υ	В	W	Units
Reverse Voltage	V_R	5	5	5	5	5	V
Forward Current (avg / peak)	I _F / I _{FS}	30 / 125	30 / 125	30 / 125	30 / 125	30 / 125	mA
Reverse Current V _R = 5V	I_R	10	10	10	10	10	μΑ
Power Dissipation	P _T	69	75	75	120	120	mW
Forward Voltage (typ. / max), I _F = 20mA	V_{F}	1.8 / 2.3	2.0 / 2.5	2.0 / 2.5	3.5 / 4.0	3.5 / 4.0	V
Wavelength, Peak Emmission, I _F = 20mA	λ_{P}	660	572	595	455		nm
Spectral Line Half-Width, I _F = 20mA	Δλ	20	20	20	30		nm
Luminous Intensity, I _F = 20mA	LI	20	20	80	40	200	mcd
Viewing Angle	Θ	150	150	150	150	150	Deg

LASER ETCHING STYLES

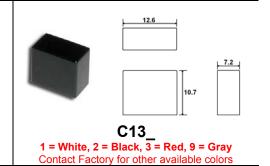


CAP OPTIONS ←FOR D ACTUATOR





1 = White, 2 = Black, 3 = Red, 9 = Gray Contact Factory for other available colors







CAP OPTIONS ←FOR **D** ACTUATOR

