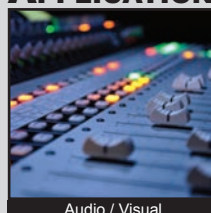


ULP SERIES PUSHBUTTON SWITCH

ANTI-VANDAL SWITCHES
DETECTOR SWITCHES
DIP SWITCHES
KEYLOCK SWITCHES
NAVIGATION SWITCHES
PUSHBUTTON SWITCHES
ROCKER SWITCHES
ROTARY SWITCHES
SLIDE SWITCHES
SNAP ACTION SWITCHES
TACTILE SWITCHES
TOGGLE SWITCHES
CAP OPTIONS



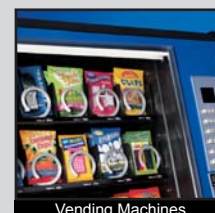
APPLICATIONS / MARKETS



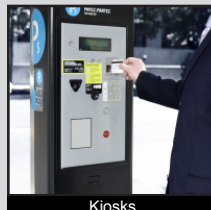
Audio / Visual



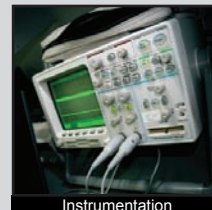
Consumer Electronics



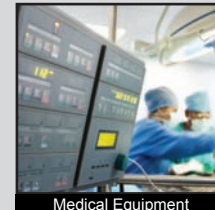
Vending Machines



Kiosks



Instrumentation



Medical Equipment

RoHS

SPECIFICATIONS

Electrical Rating: Silver: .5A @ 25VDC
Gold: .4VA Max @ 28V (AC or DC)
Mechanical Life: 1,000,000 Cycles
Electrical Life: 200,000 Cycles
Contact Resistance: Silver: 50mΩ Max. initial
Gold: 100mΩ Max. initial
Insulation Resistance: 100 MΩ Min. @ 500VDC
Dielectric Strength: 2,000VAC
Operating/Storage Temperature: -20°C to 70°C
Travel: 2.20mm
Contact Arrangement: SPDT, DPDT
Actuation Force: SPDT: 200gf; DPDT: 300 gf
Panel Thickness: 0.75-3.0mm (panel mount version only)

FEATURES & BENEFITS

- Single pole or double pole functions
- Multiple color options including RGB color
- Multiple cap color and style options
- PC pin or solder lug termination
- Latching or momentary options
- Gold or silver contact material

PART NUMBER CONFIGURATOR

Series	Circuit Options	Mechanical Configuration Options	Termination Options	Contact Material Options	Cap Style Options	Cap Color Options	LED #1 Options	LED #2 Options
ULP	12- SPDT 22 - DPDT	EE - Latching OA - Momentary	P1 - PC Pins M1- Solder Lug	Q - Silver R - Gold	SS - Square Sculptured SF - Square Flat RF - Rectangular Flat PM - Panel Mount LS - Large Sculptured	CL1 - Clear Lens / White Diffuser OP1 - Black Opaque	NIL - No LED B - Blue G - Green R - Red Y - Yellow RGB - Red-Blue-Green	NIL - No LED B - Blue G - Green R - Red Y - Yellow

NOTES:
1) M1 Termination is only available with Panel Mount Cap Style
2) P1 Termination is not available with Panel Mount cap Style
3) OP1 Cap Color (black opaque) is not available with LEDs
4) When ordering RGB LED option, no designation is required for LED#2

Specifications subject to change without notice



E-SWITCH®

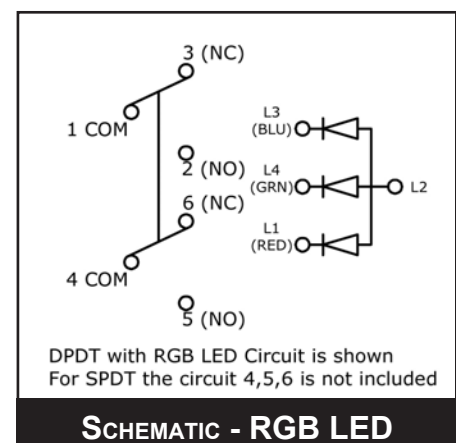
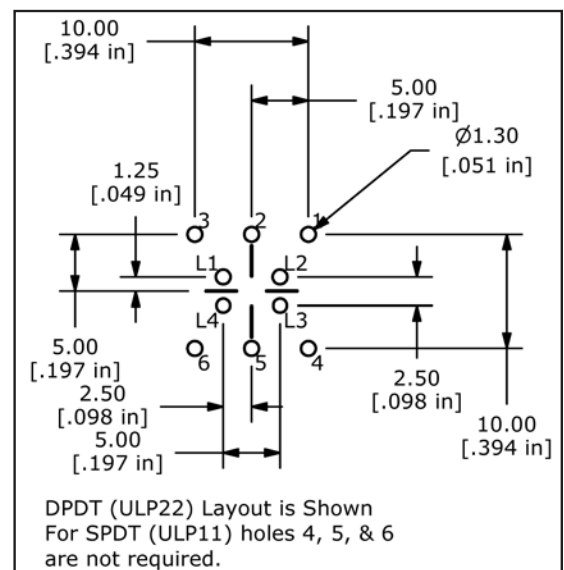
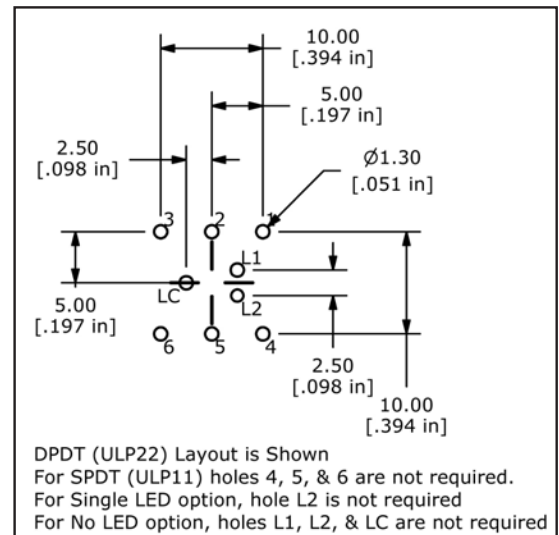
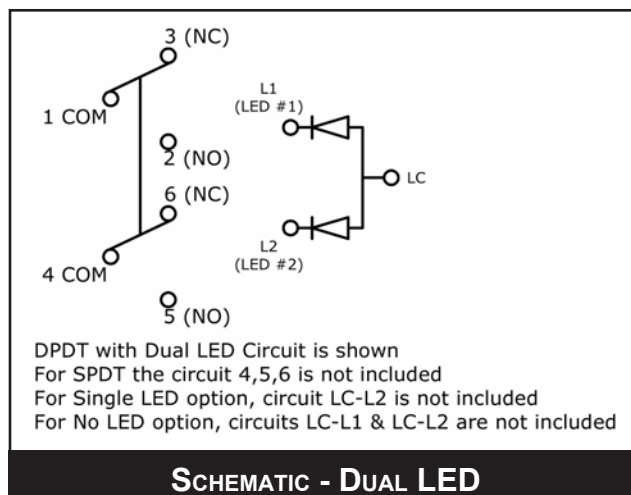
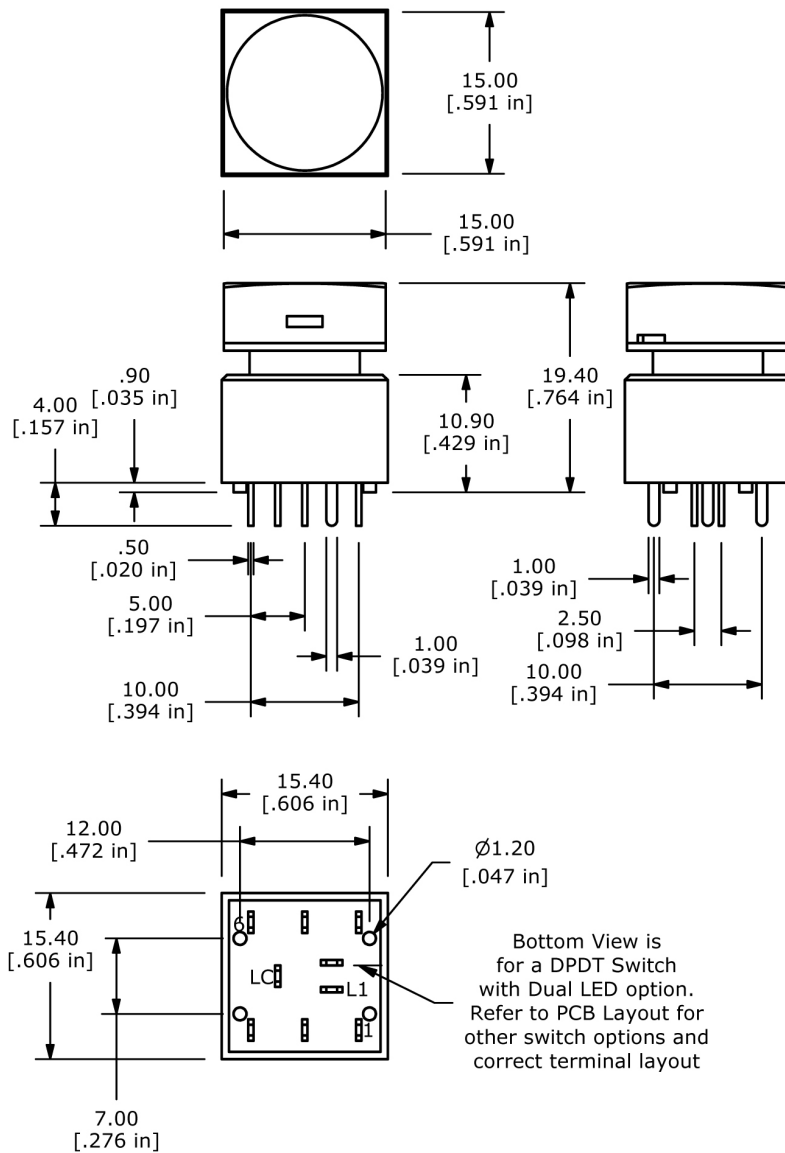
www.e-switch.com

800.867.2717

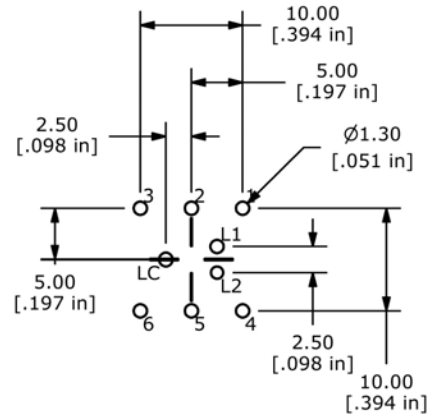
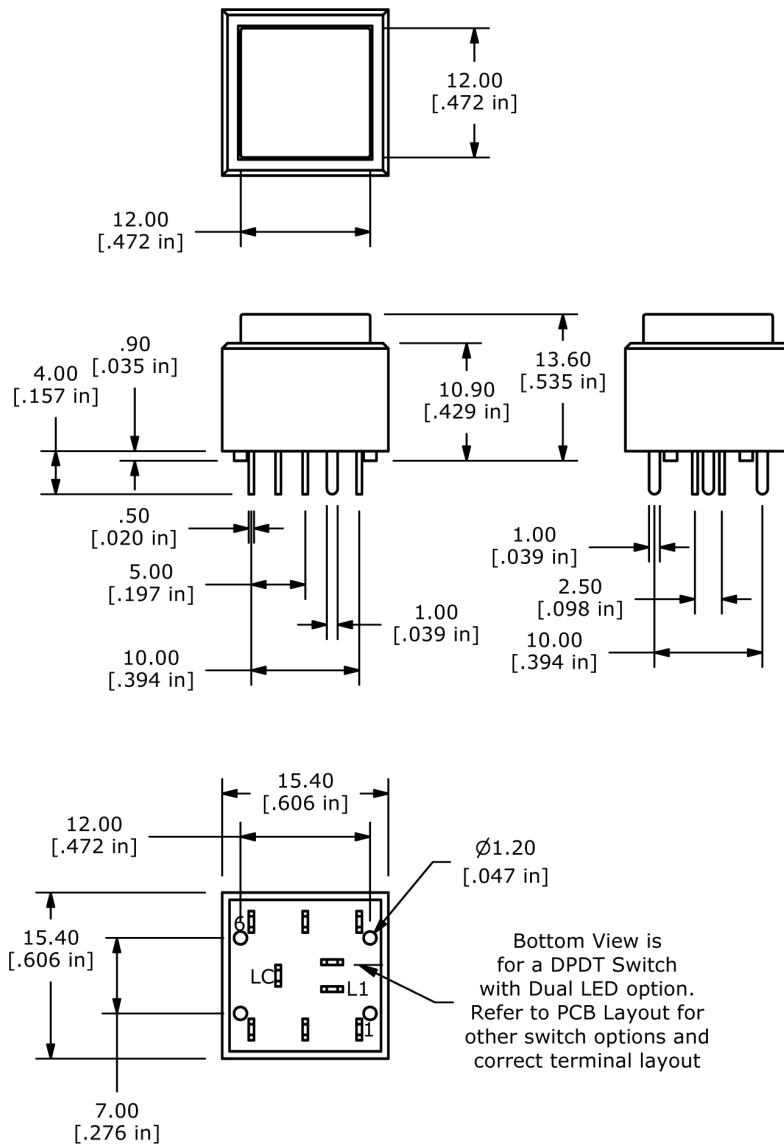
2

ULP SERIES PUSHBUTTON SWITCH

ACTUATOR OPTIONS - SQUARE SCULPTURED

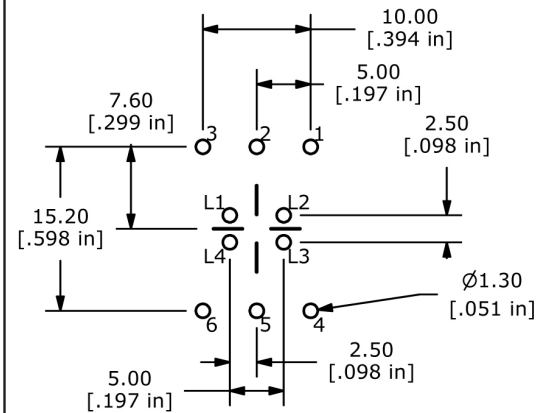


ACTUATOR OPTIONS - SQUARE FLAT



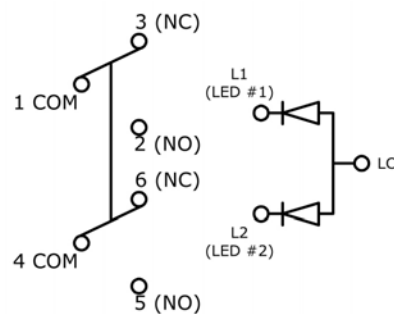
DPDT (ULP22) Layout is Shown
For SPDT (ULP11) holes 4, 5, & 6 are not required.
For Single LED option, hole L2 is not required
For No LED option, holes L1, L2, & LC are not required

PCB LAYOUT - DUAL LED



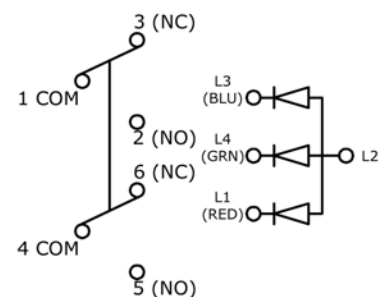
DPDT (ULP22) Layout is Shown
For SPDT (ULP11) holes 4, 5, & 6 are not required.

PCB LAYOUT - RGB LED



DPDT with Dual LED Circuit is shown
For SPDT the circuit 4,5,6 is not included
For Single LED option, circuit LC-L2 is not included
For No LED option, circuits LC-L1 & LC-L2 are not included

SCHEMATIC - DUAL LED

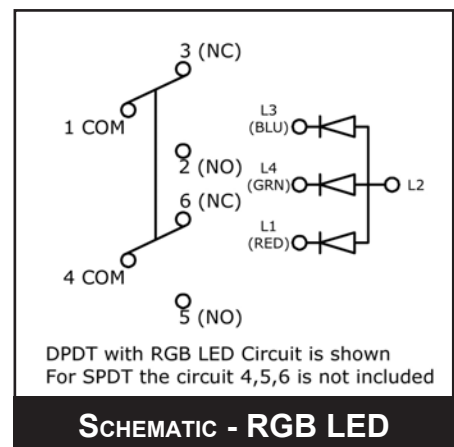
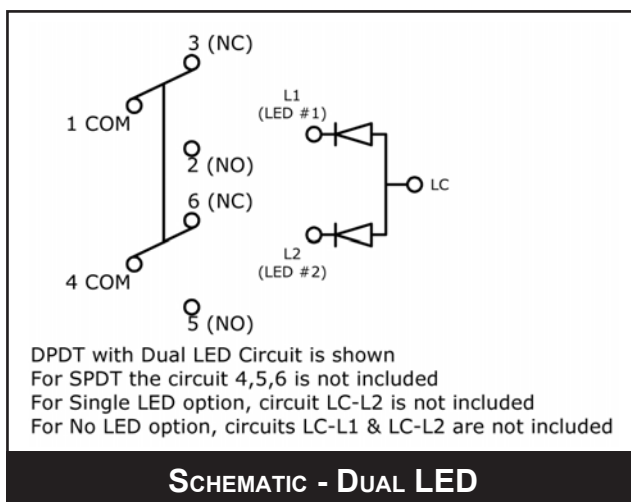
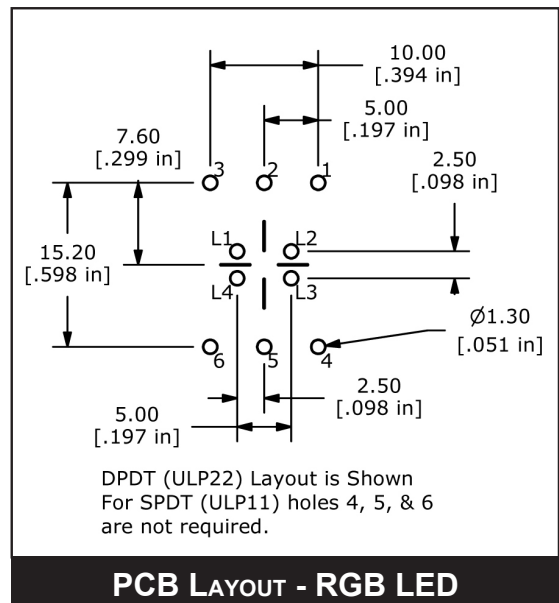
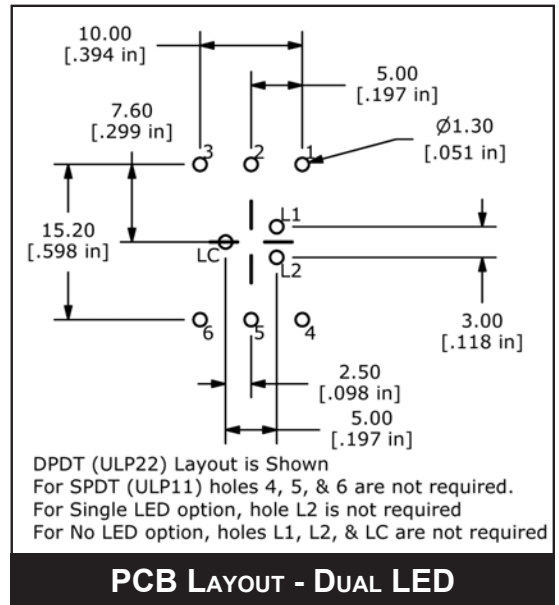
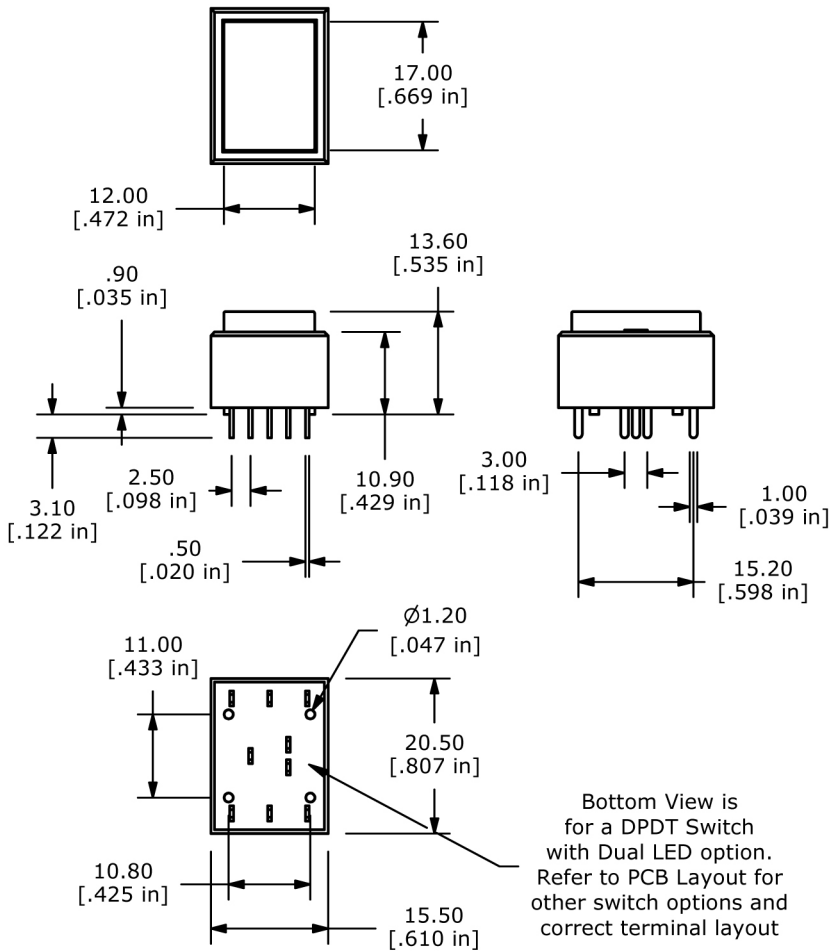


DPDT with RGB LED Circuit is shown
For SPDT the circuit 4,5,6 is not included

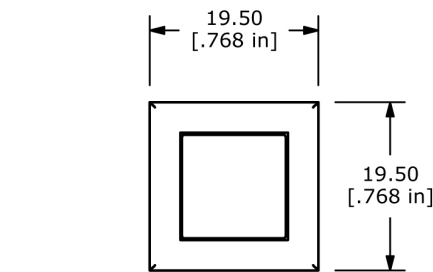
SCHEMATIC - RGB LED



ACTUATOR OPTIONS - RECTANGULAR FLAT

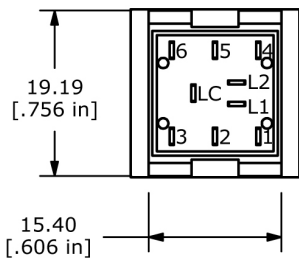
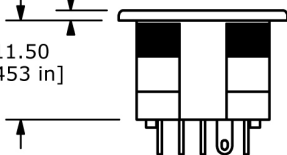


ACTUATOR OPTIONS - PANEL MOUNT



1.20
[.047 in]

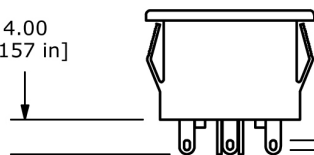
11.50
[.453 in]



19.19
[.756 in]

15.40
[.606 in]

4.00
[.157 in]



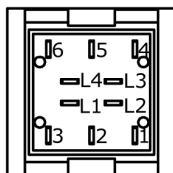
5.00
[.197 in]

10.00
[.394 in]

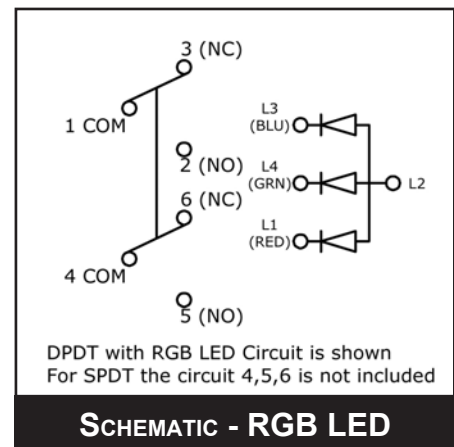
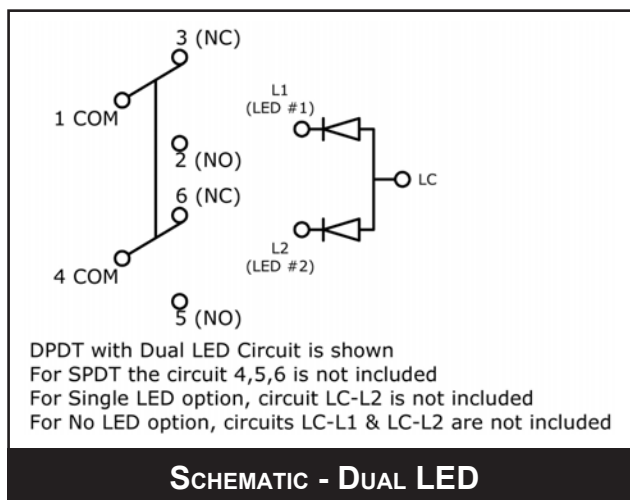
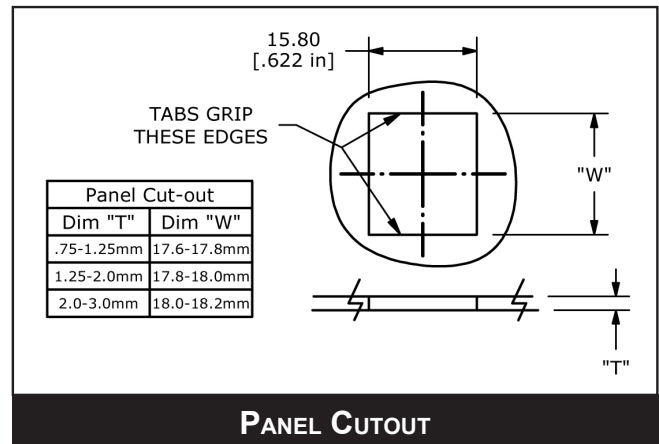
1.75
[.069 in]

.70
[.028 in]

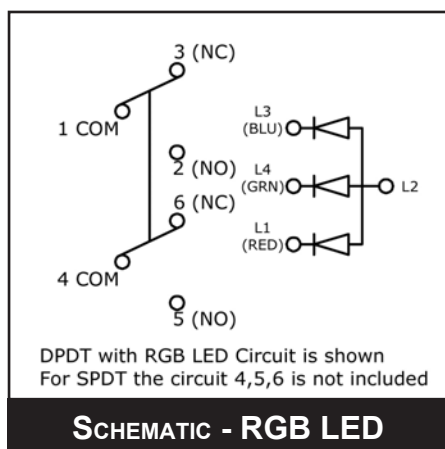
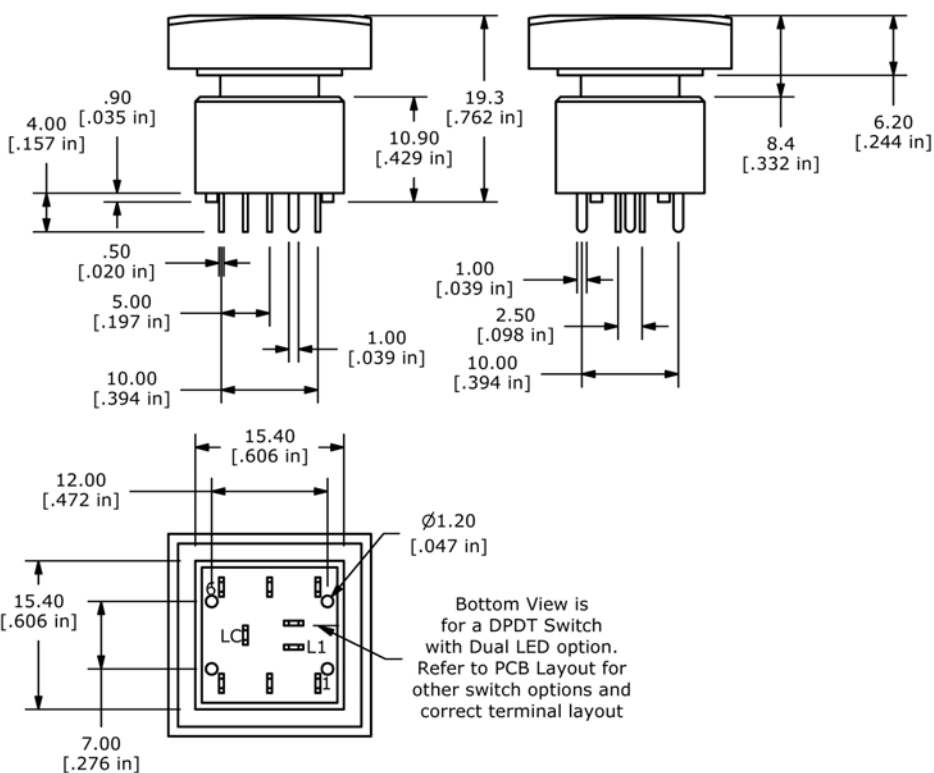
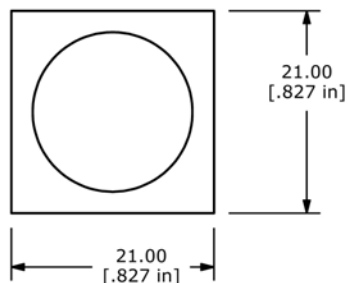
Bottom View of a DPDT Switch
with Dual LED option.
Refer to Schematic for
one LED, zero LED, and SPST options
and correct terminal layout.



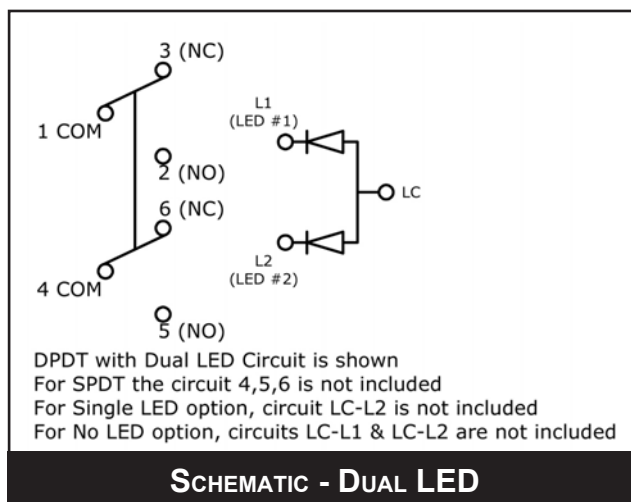
Bottom View of a DPDT Switch
with RGB LED option.
Refer to Schematic for SPST option
and correct terminal layout.



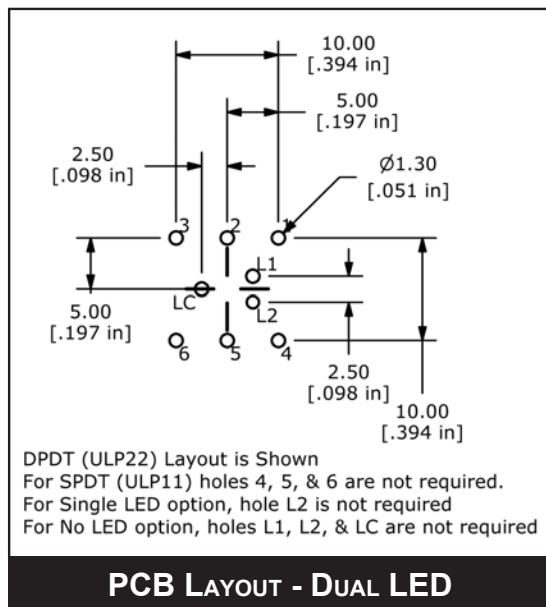
ACTUATOR OPTIONS - LARGE SCULPTURED



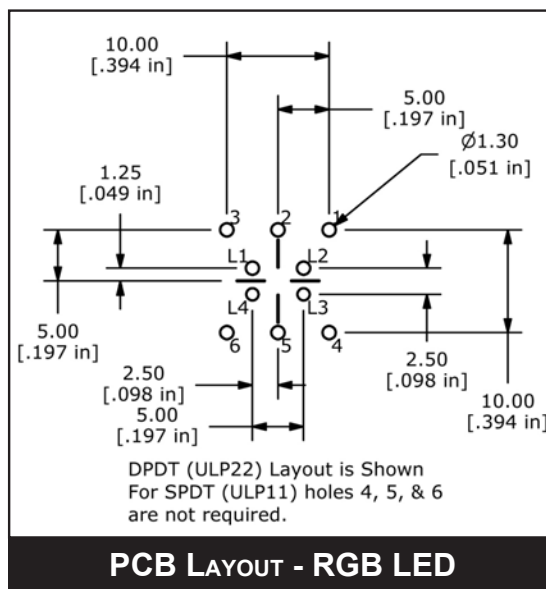
SCHEMATIC - RGB LED



SCHEMATIC - DUAL LED



PCB LAYOUT - DUAL LED



PCB LAYOUT - RGB LED



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- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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