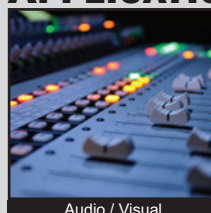


ULP SERIES PUSHBUTTON SWITCH

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



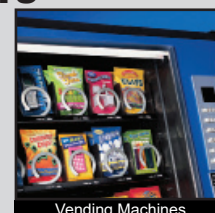
APPLICATIONS / MARKETS



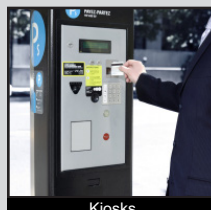
Audio / Visual



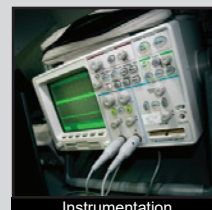
Consumer Electronics



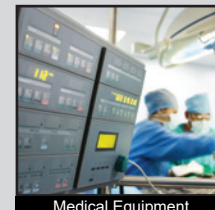
Vending Machines



Kiosks



Instrumentation



Medical Equipment

RoHS

SPECIFICATIONS

Electrical Rating: Silver: .5A @ 25VDC
Gold: 0.1A Max @ 28VDC
Electrical Life: 200,000 Cycles
Contact Resistance: Silver: 50mΩ Max. initial
Gold: 100mΩ Max. initial
Insulation Resistance: 100 MΩ Min. @ 500VDC
Dielectric Strength: 1,000VAC
Operating/Storage Temperature: -40°C to 85°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 BLU - Blue GRN - Green RED - Red YEL - Yellow RGB - Red-Blue-Green	 NIL - No LED BLU - Blue GRN - Green RED - Red YEL - 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®

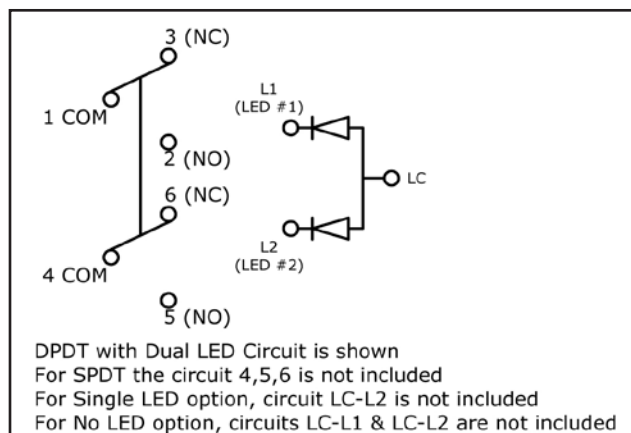
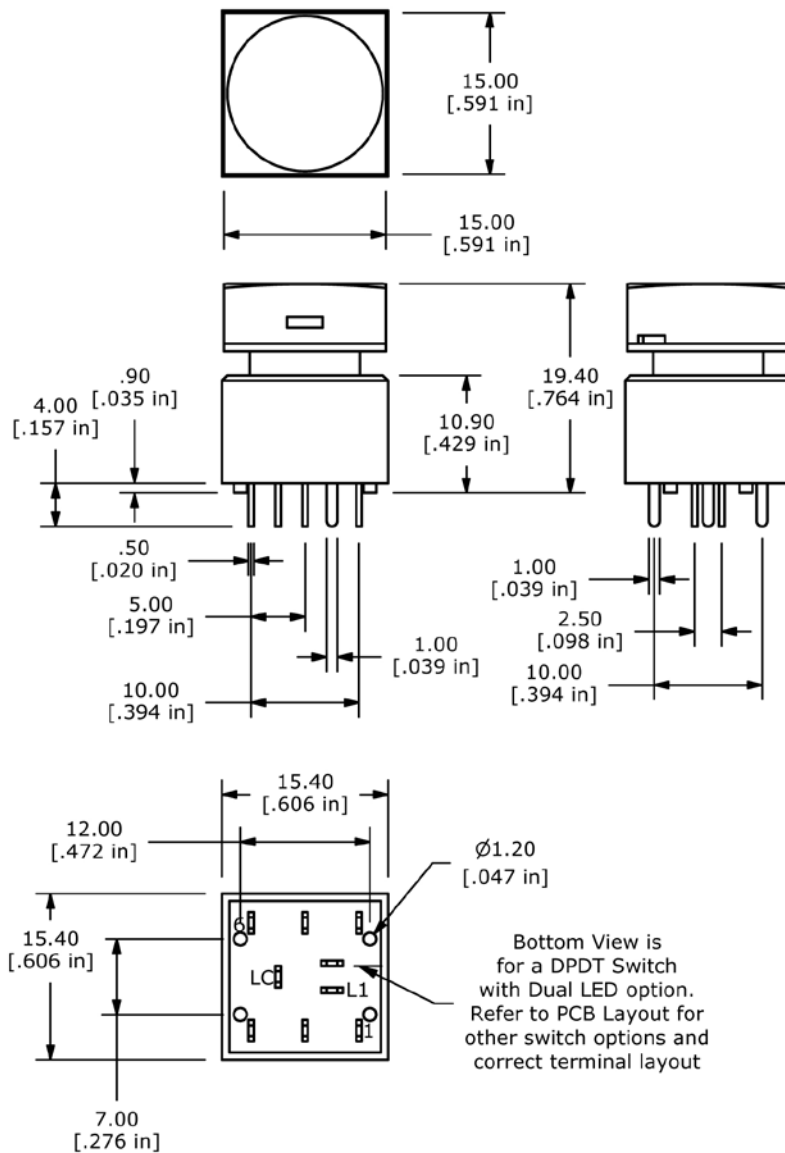
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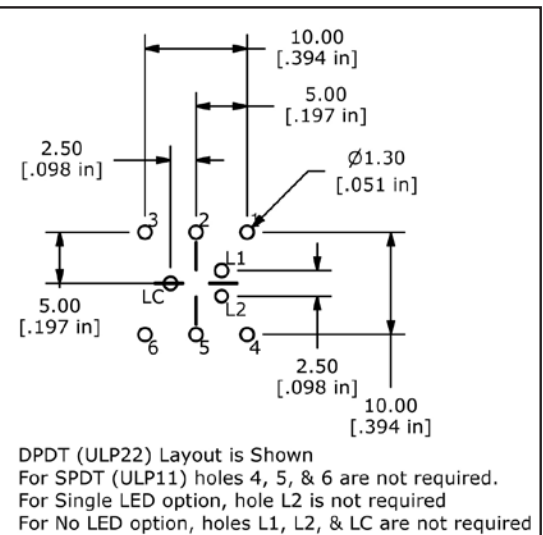
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ULP SERIES PUSHBUTTON SWITCH

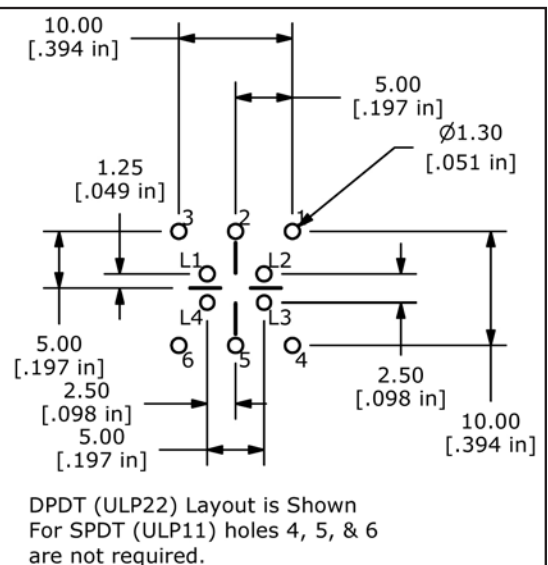
ACTUATOR OPTIONS - SQUARE SCULPTURED



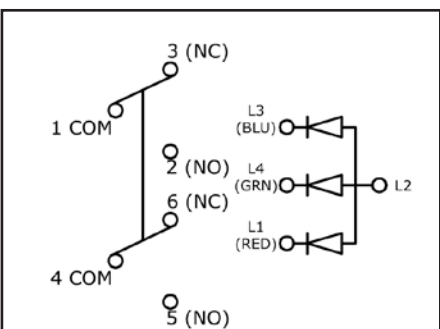
SCHEMATIC - DUAL LED



PCB LAYOUT - DUAL LED



PCB LAYOUT - RGB LED

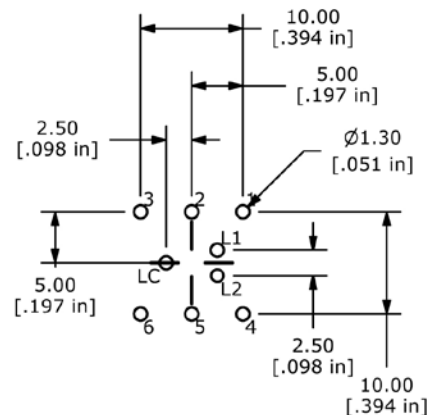
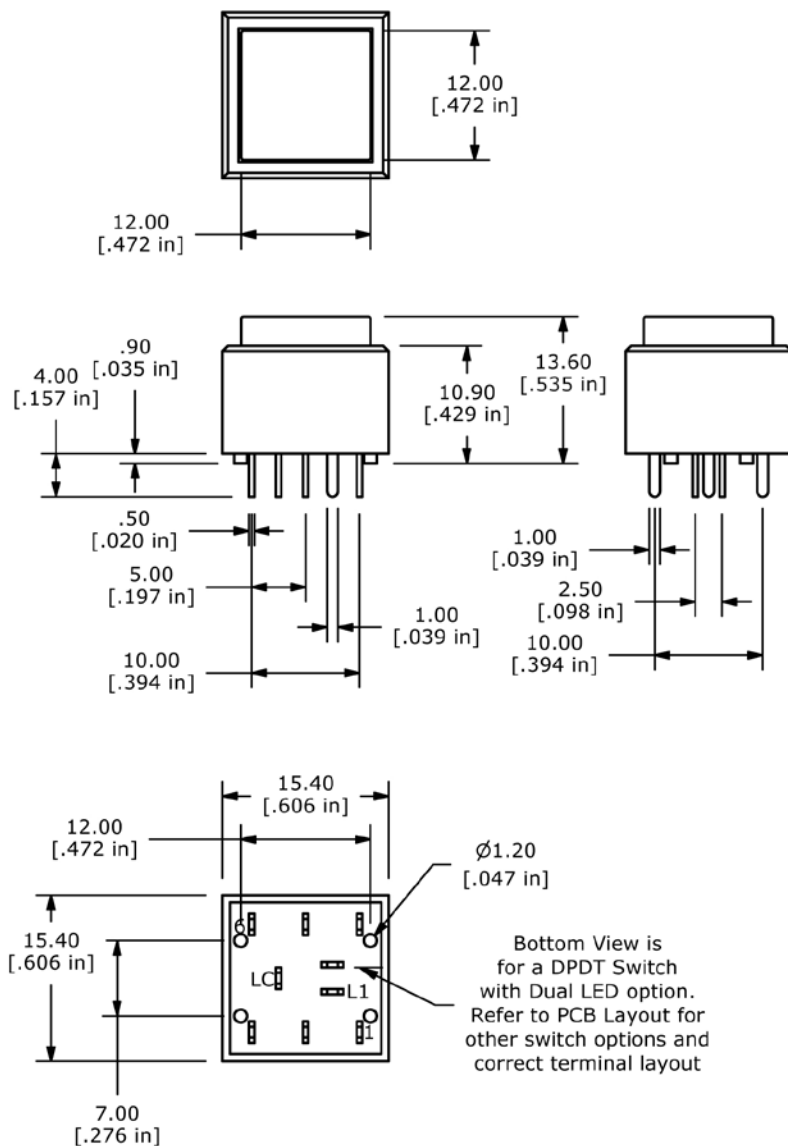


SCHEMATIC - RGB LED



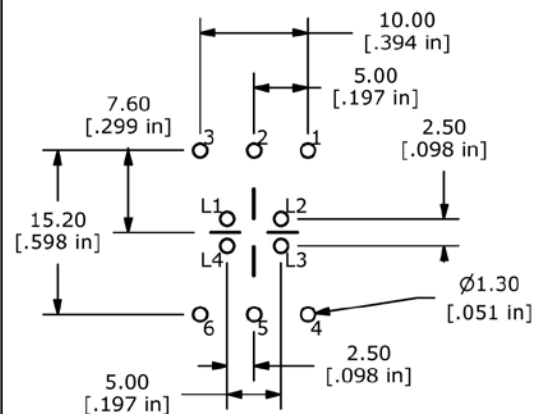
ULP SERIES PUSHBUTTON SWITCH

ACTUATOR OPTIONS - SQUARE FLAT



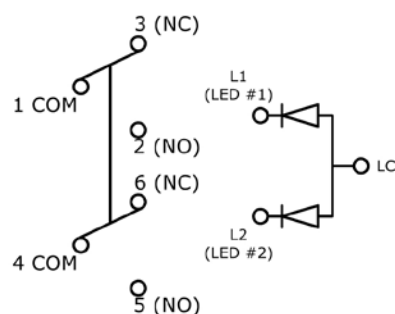
DPDT (ULP22) Layout is Shown
For SPDT (ULP11) holes 4, 5, & 6 are not required.
For Single LED option, hole L2 is not required
For No LED option, holes L1, L2, & LC are not required

PCB LAYOUT - DUAL LED



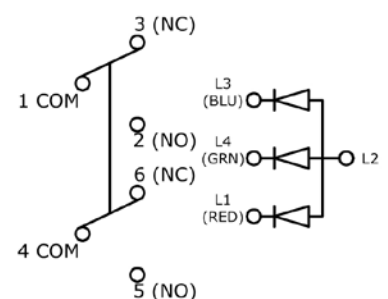
DPDT (ULP22) Layout is Shown
For SPDT (ULP11) holes 4, 5, & 6 are not required.

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



E-SWITCH®

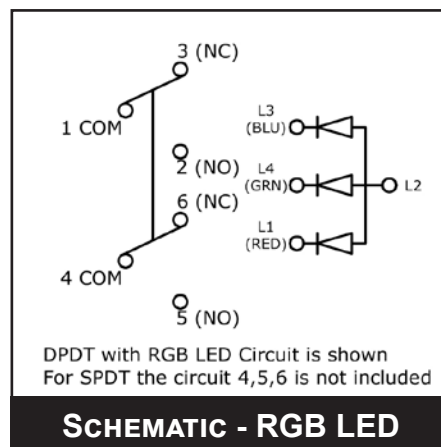
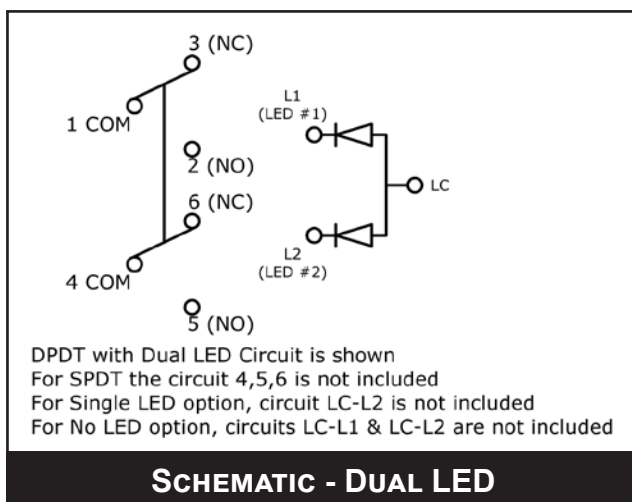
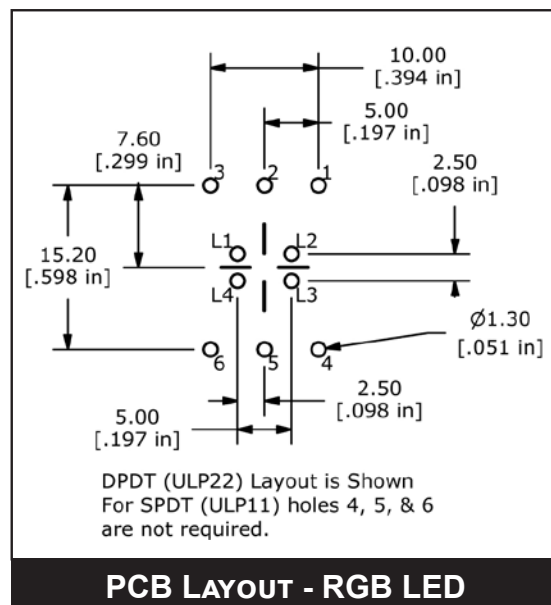
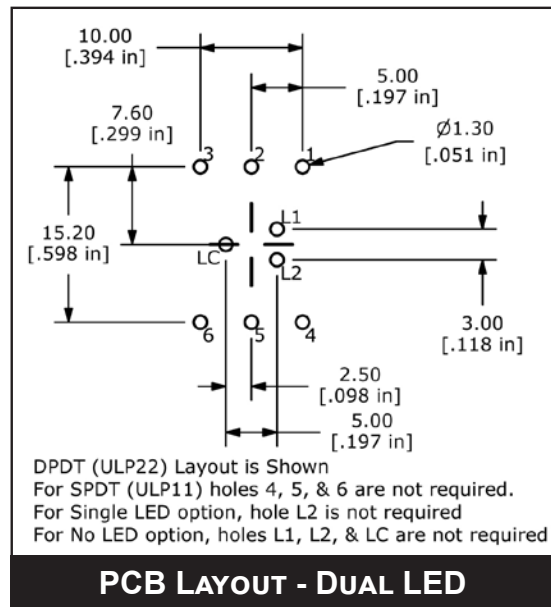
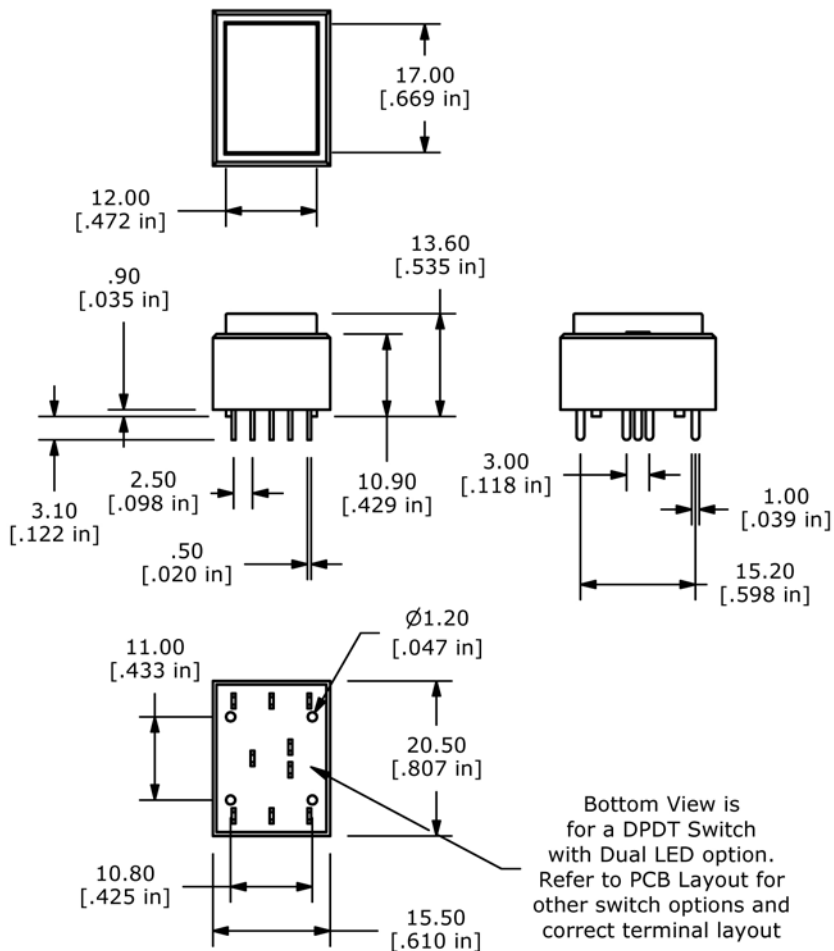
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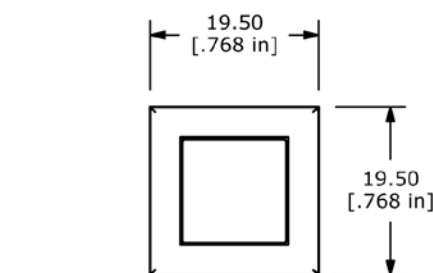
ULP SERIES PUSHBUTTON SWITCH

ACTUATOR OPTIONS - RECTANGULAR FLAT

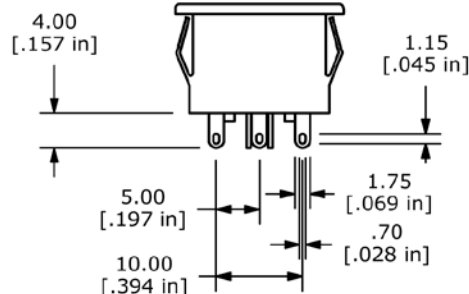
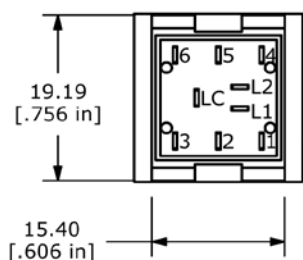
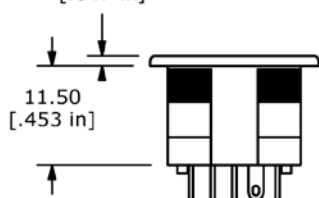


ULP SERIES PUSHBUTTON SWITCH

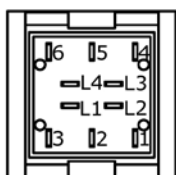
ACTUATOR OPTIONS - PANEL MOUNT



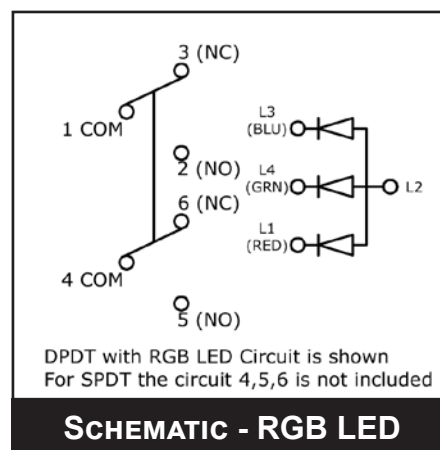
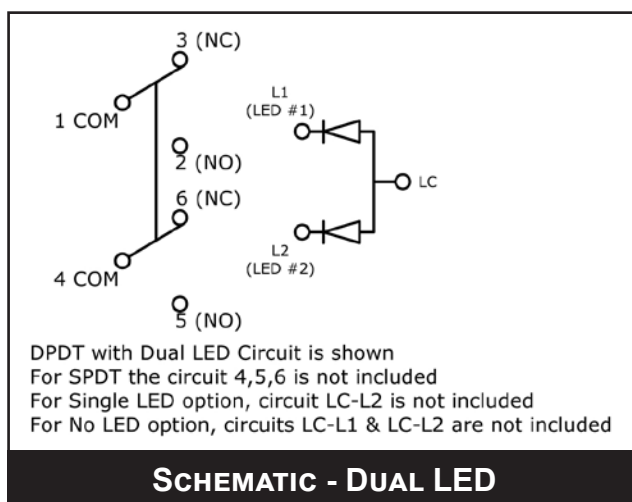
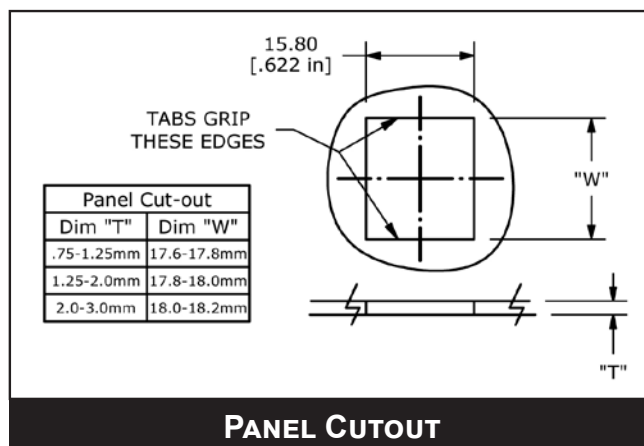
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Bottom View of a DPDT Switch
with Dual LED option.
Refer to Schematic for
one LED, zero LED, and SPST options
and correct terminal layout.

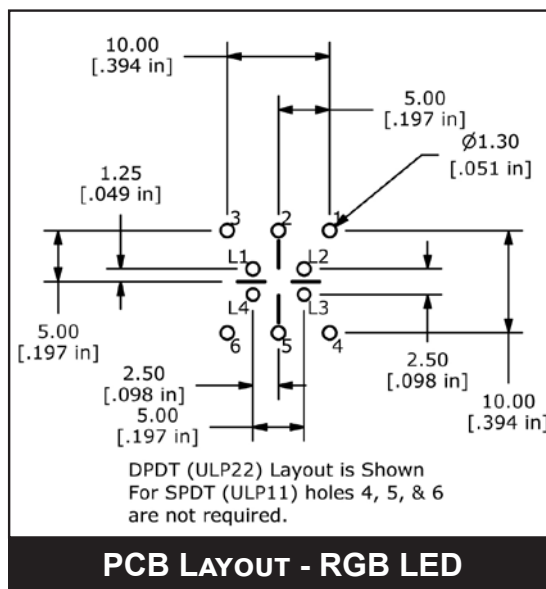
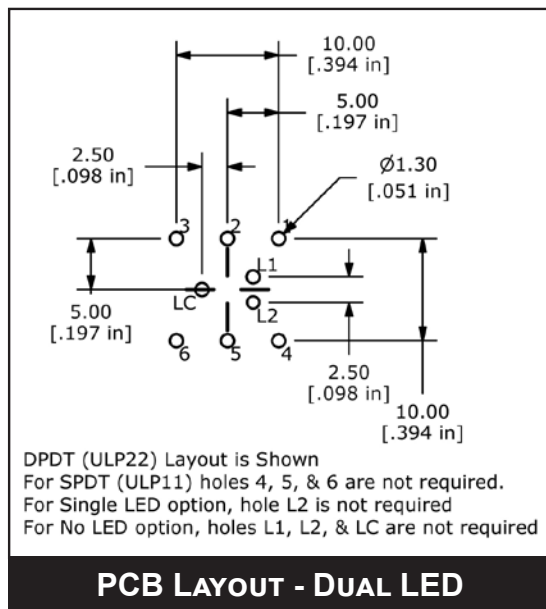
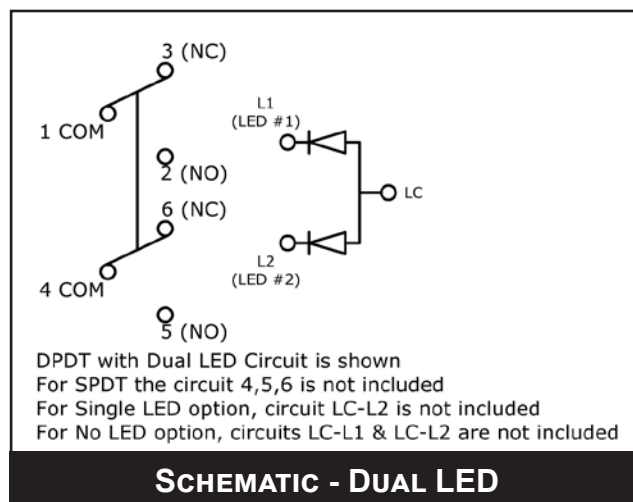
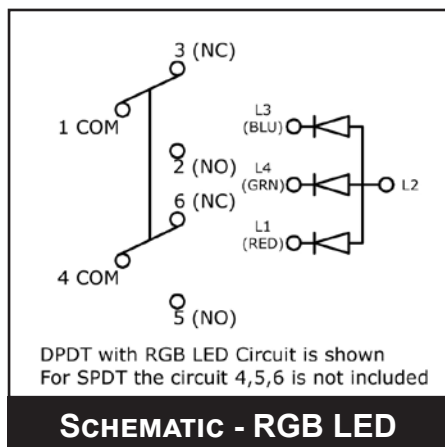
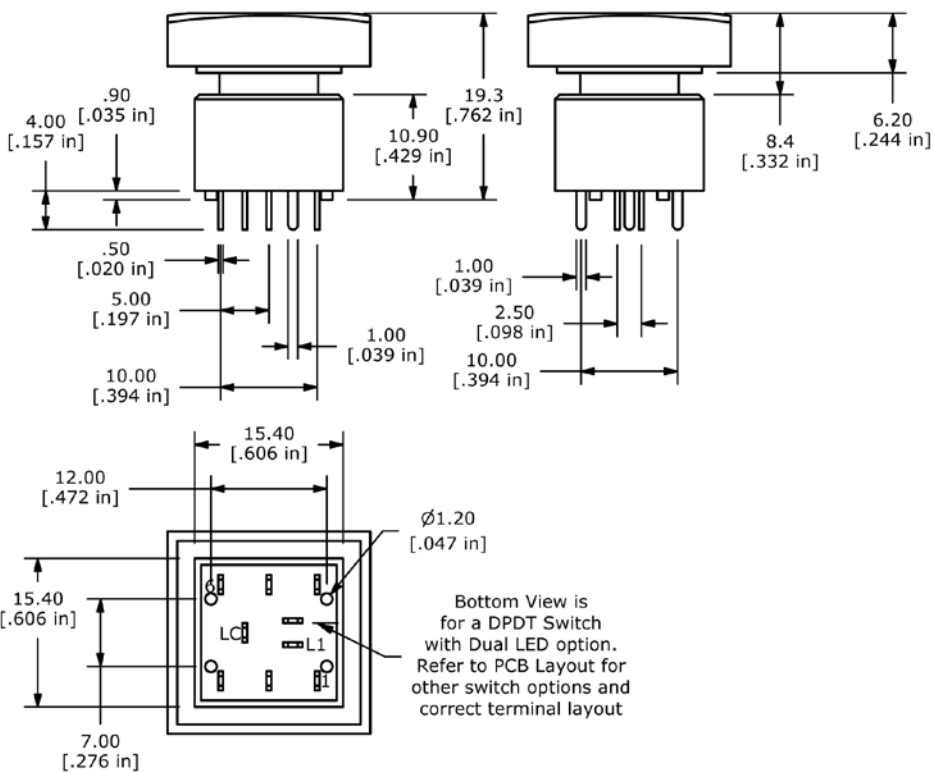
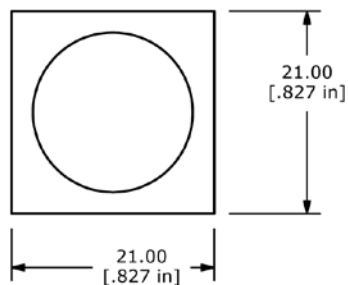


Bottom View of a DPDT Switch
with RGB LED option.
Refer to Schematic for SPST option
and correct terminal layout.



ULP SERIES PUSHBUTTON SWITCH

ACTUATOR OPTIONS - LARGE SCULPTURED



Mouser Electronics

Authorized Distributor

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[ULP22EEM1RPMCL1REDGRN](#) [ULP22OAM1QPMCL1BLURED](#) [ULP22OAM1RPMCL1REDBLU](#)
[ULP12EEP1QSSCL1REDGRN](#) [ULP12EEP1QSSCL1REDNIL](#) [ULP12EEP1RSSCL1BLUGRN](#)
[ULP12OAP1QRFCL1REDGRN](#) [ULP12OAP1QSFCL1BLUBLU](#) [ULP12OAP1QSFCL1REDGRN](#)
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