

ULP SERIES PUSHBUTTON SWITCH

ANTI-VANDAL
SWITCHESDETECTOR
SWITCHESDIP
SWITCHESKEYLOCK
SWITCHESNAVIGATION
SWITCHESPUSHBUTTON
SWITCHESROCKER
SWITCHESROTARY
SWITCHESSLIDE
SWITCHESSNAP ACTION
SWITCHESTACTILE
SWITCHESTOGGLE
SWITCHES
CAP
OPTIONS

APPLICATIONS / MARKETS



Audio / Visual



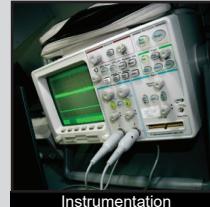
Consumer Electronics



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 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-Green-Blue	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

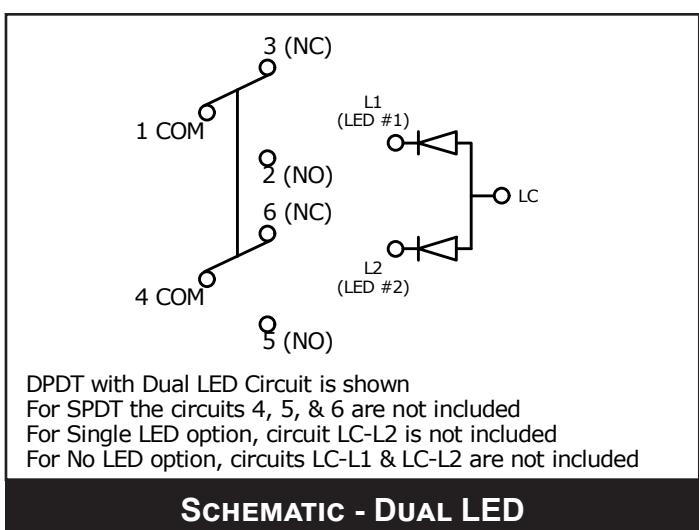
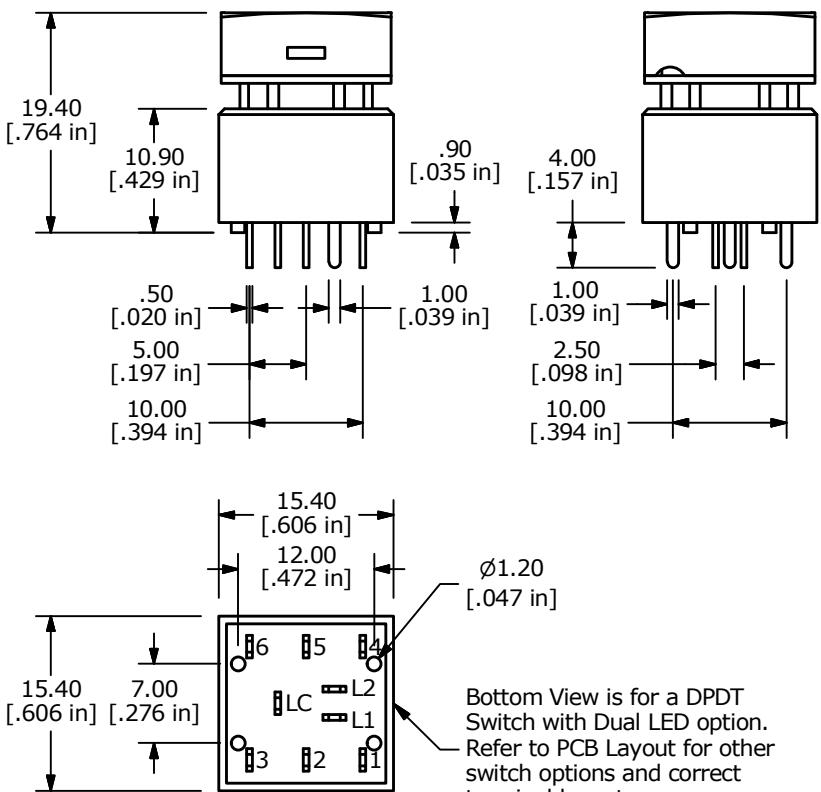
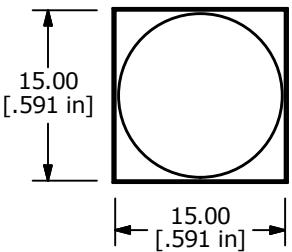
Specifications subject to change without notice 6.27.2022**E-SWITCH®**

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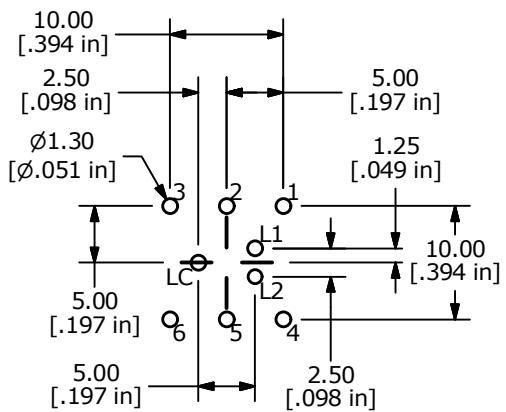
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ULP SERIES PUSHBUTTON SWITCH

ACTUATOR OPTIONS - SQUARE SCULPTURED

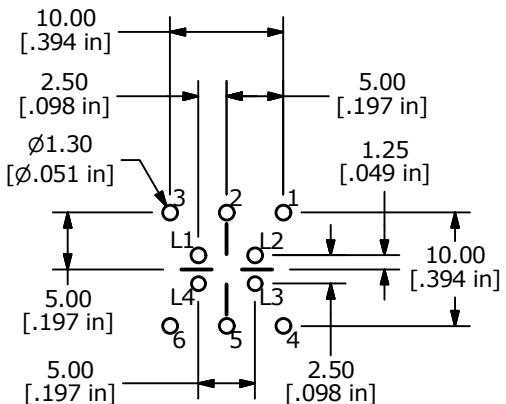


SCHEMATIC - DUAL LED



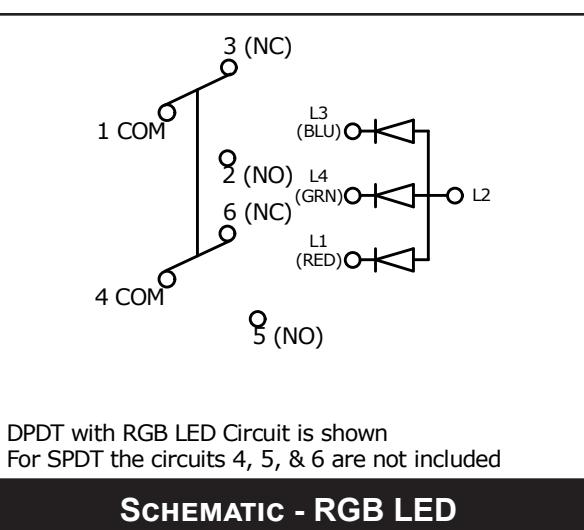
DPDT (ULP22) Layout is Shown
For SPDT (ULP11) holes 4, 5, & 6 are not required.
For Single LED option, hole L2 is not required
For No LED option, holes L1, L2, & LC are not required

PCB LAYOUT - DUAL LED



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

PCB LAYOUT - RGB LED



SCHEMATIC - RGB LED



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ROCKER
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ROTARY
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SLIDE
SWITCHES

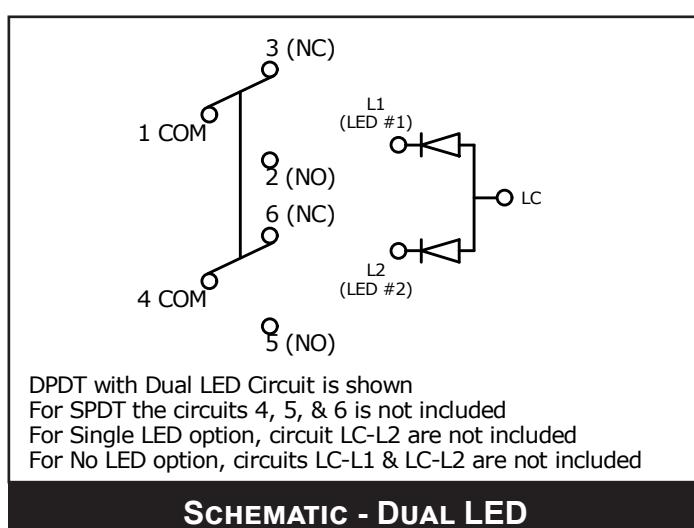
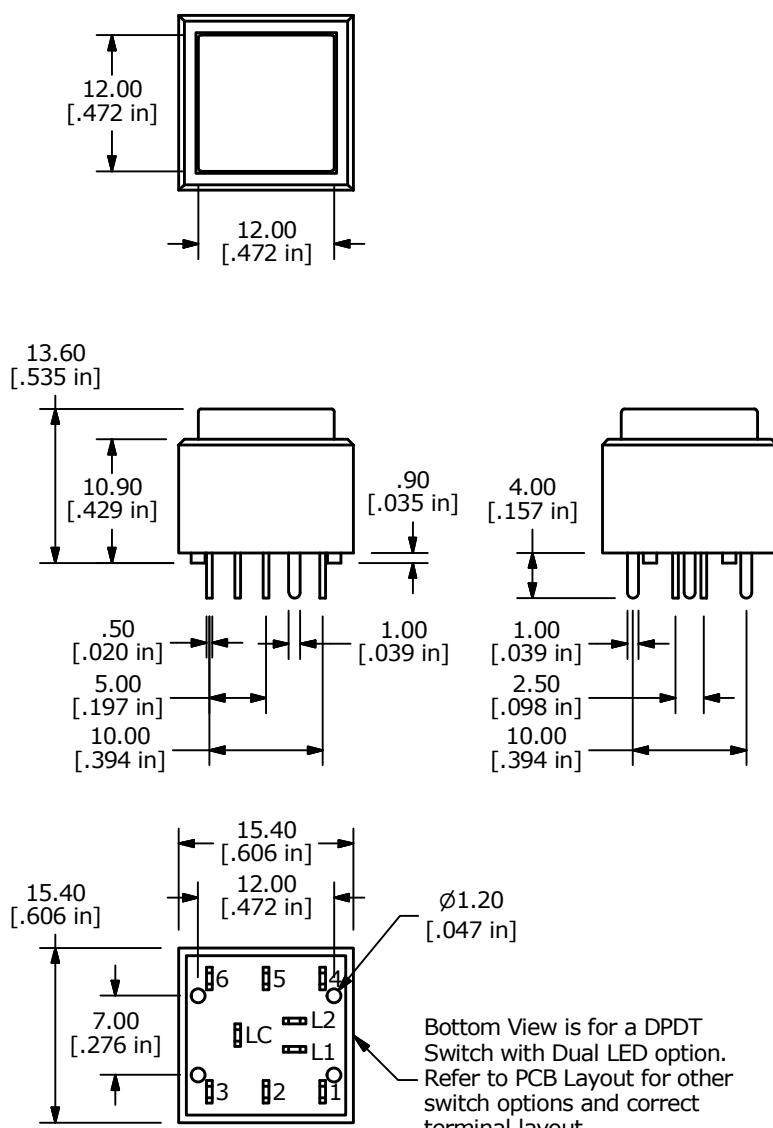
SNAP ACTION
SWITCHES

TACTILE
SWITCHES

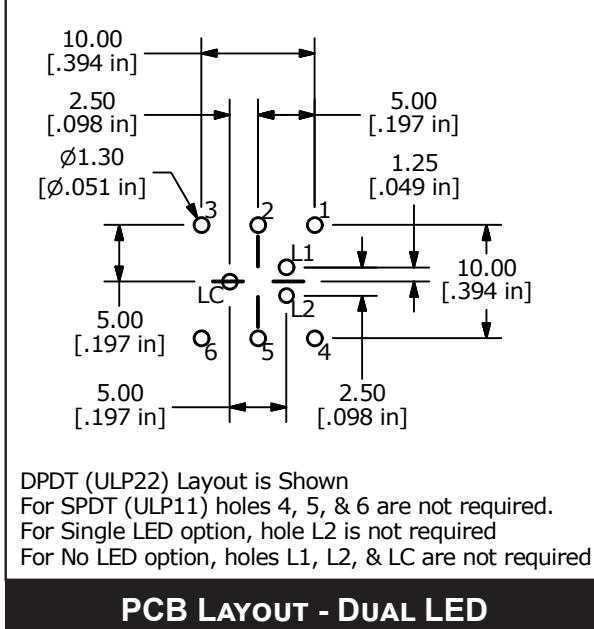
TOGGLE
SWITCHES

CAP
OPTIONS

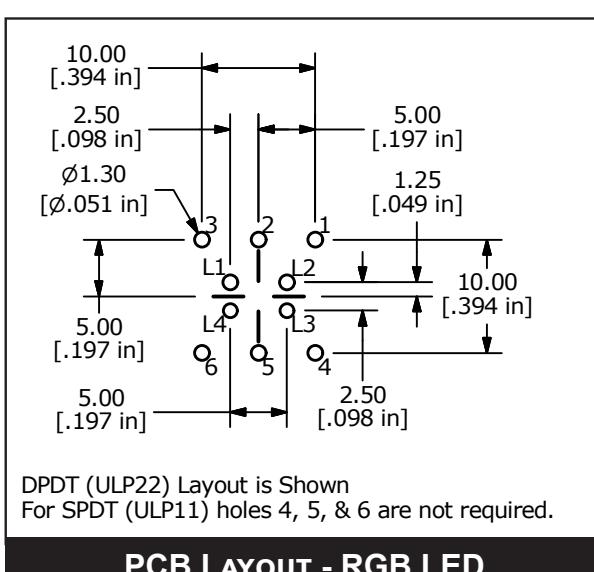
ACTUATOR OPTIONS - SQUARE FLAT



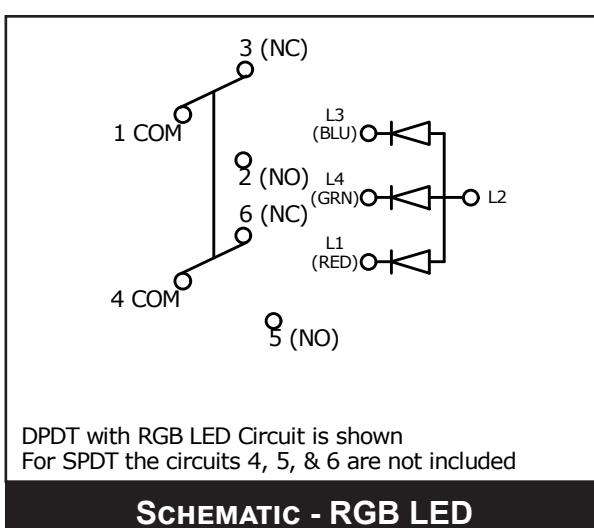
SCHEMATIC - DUAL LED



PCB LAYOUT - DUAL LED



PCB LAYOUT - RGB LED



SCHEMATIC - RGB LED



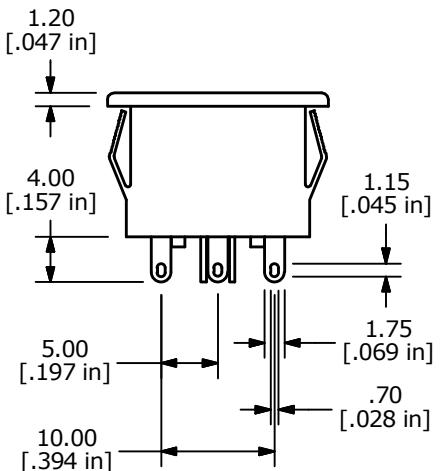
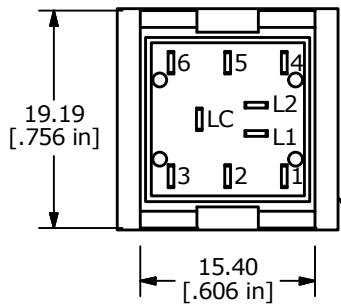
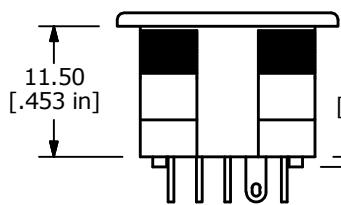
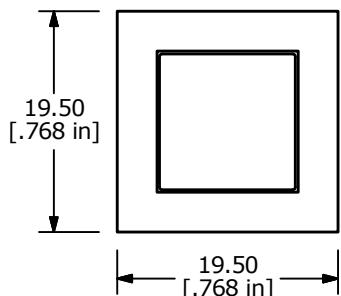
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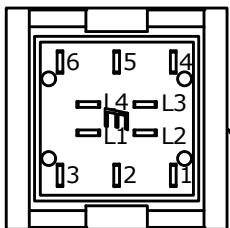
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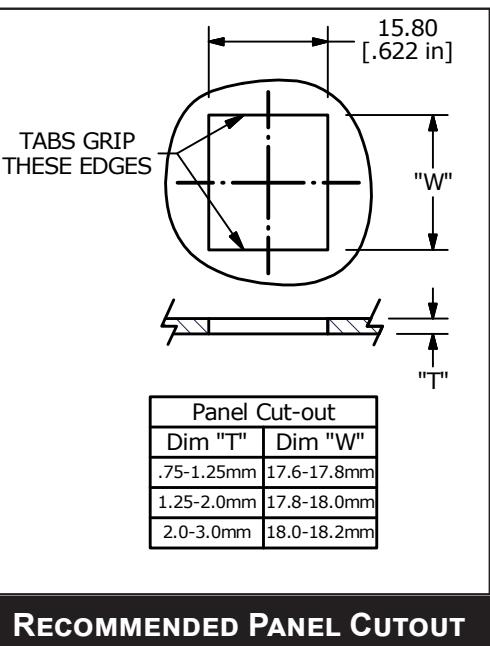
ACTUATOR OPTIONS - PANEL MOUNT



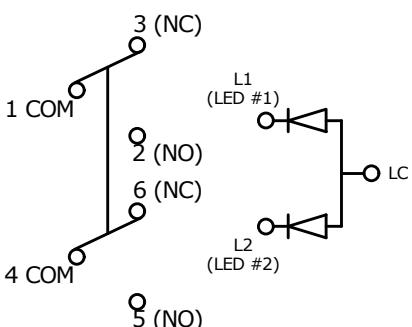
Bottom View of a DPDT Switch with Dual LED option. Refer to Schematic for one LED, zero LED, and SPST options for correct terminal layout.



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

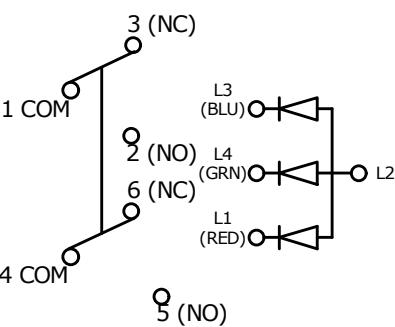


RECOMMENDED PANEL CUTOUT



DPDT with Dual LED Circuit is shown
For SPDT the circuits 4, 5, & 6 are 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 circuits 4, 5, & 6 are not included

SCHEMATIC - RGB LED



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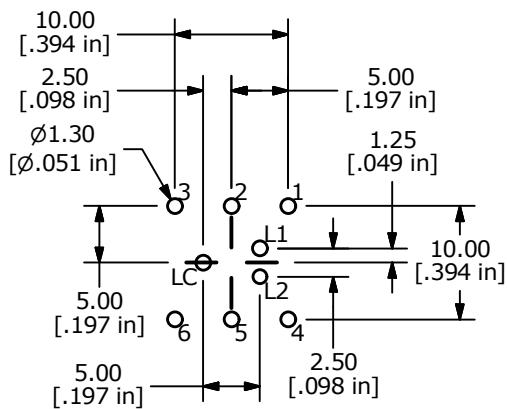
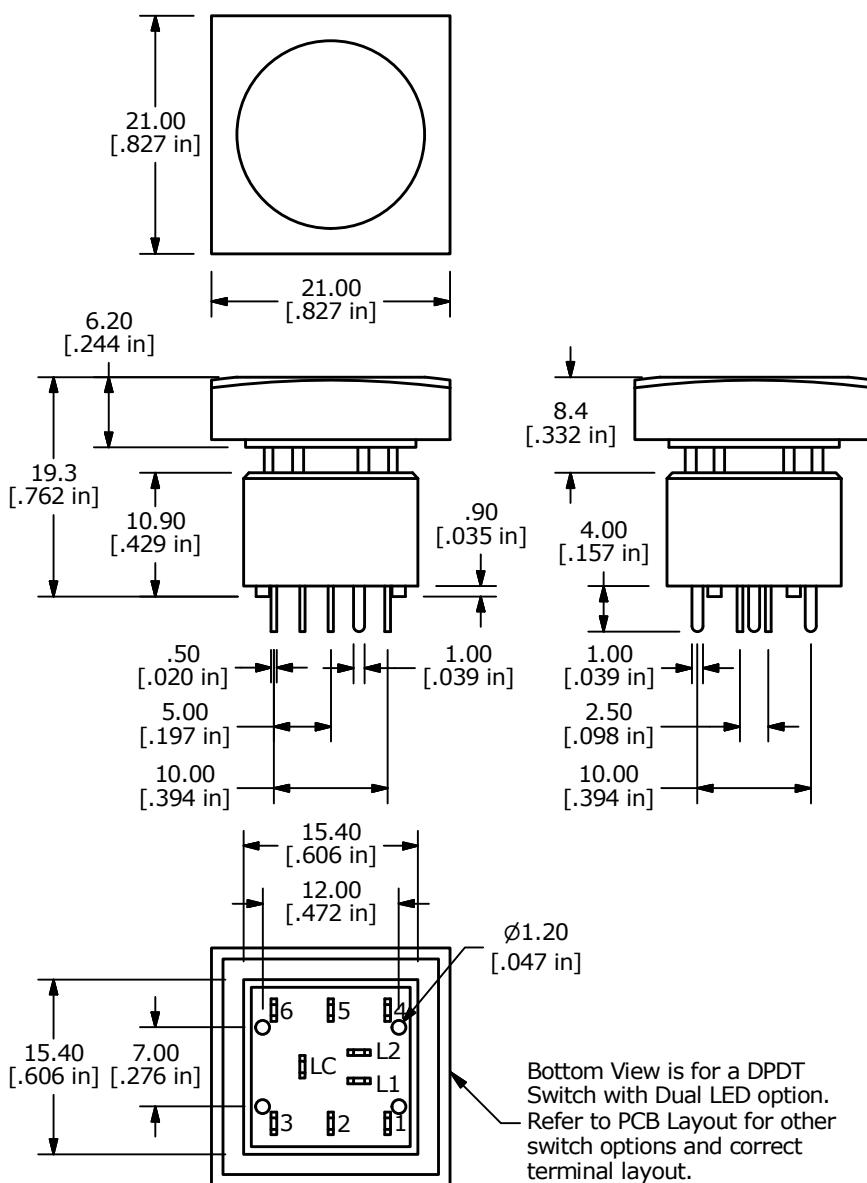
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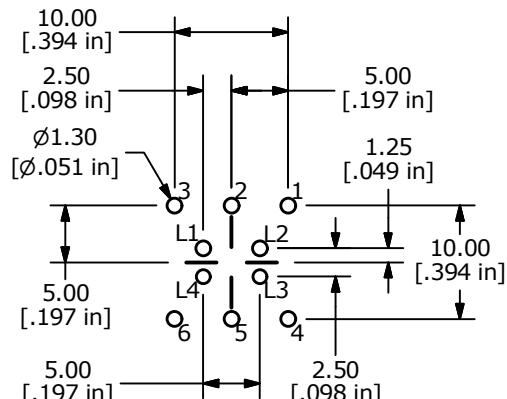
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ACTUATOR OPTIONS - LARGE SCULPTURED



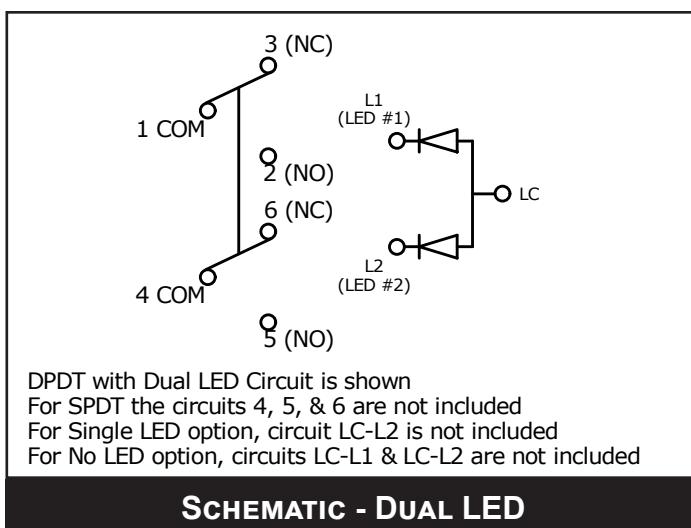
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PCB LAYOUT - DUAL LED

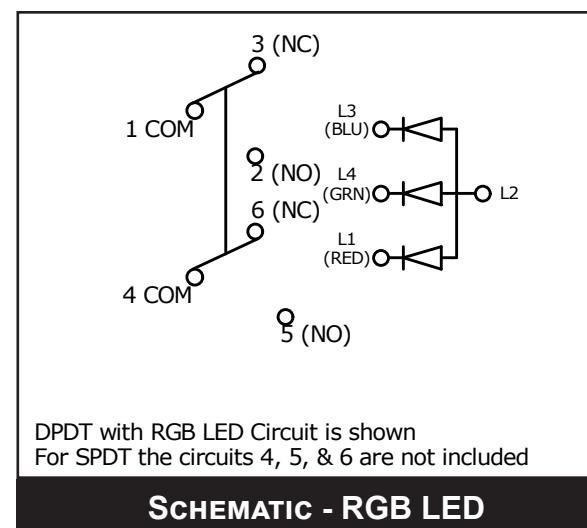


DPDT (ULP22) Layout is Shown
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PCB LAYOUT - RGB LED



SCHEMATIC - DUAL LED



SCHEMATIC - RGB LED



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