

## **APPLICATIONS / MARKETS**













### 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)

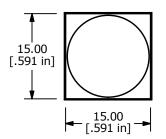
# FEATURES & BENEFITS

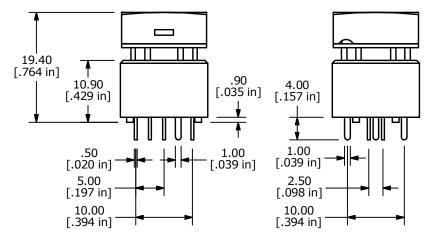
- · Single pole or double pole functions
- Multiple color options including RGB color
- Multiple cap color and style options
- · PC pin or solder lug termination
- · Latching or momentary options
- · Gold or silver contact material

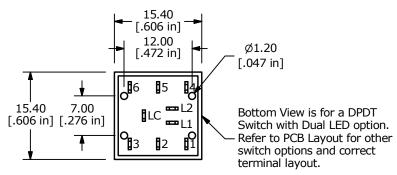
		Mechanical		Contact				
Series	Circuit Options	Configuration Options	Termination Options	Material Options	Cap Style Options	Cap Color Options	LED #1 Options	LED #2 Options
ULP	12- SPDT 22 - DPDT	EE - Latching OA - Momentary	P1 - PC Pins M1- Solder Lug	Q - Silver R - Gold	SS - Square Sculptured SF - Square 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
		with Panel Mount Cap St th Panel Mount cap Style						

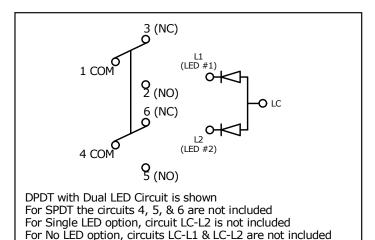
Specifications subject to change without notice 6.27.2022

3) OP1 Cap Color (black opaque) is not available with LEDs 4) When ordering RGB LED option, no designation is required for LED#2

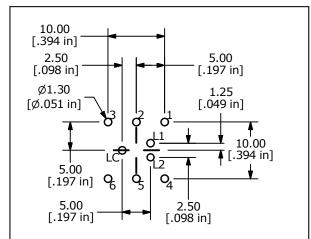






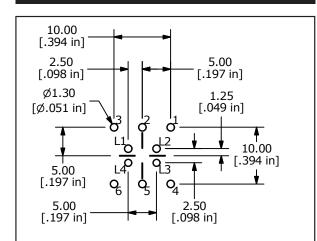


**SCHEMATIC - DUAL LED** 



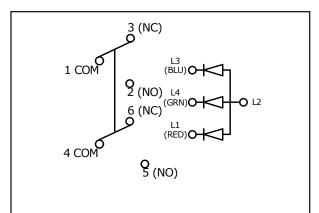
DPDT (ULP22) Layout is Shown For SPDT (ULP11) holes 4, 5, & 6 are not required. For Single LED option, hole L2 is not required For No LED option, holes L1, L2, & LC are not required

#### **PCB LAYOUT - DUAL LED**



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

#### **PCB LAYOUT - RGB LED**



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

#### **SCHEMATIC - RGB LED**

**\$** 

E+SWITCH®

ANTI-VANDAL SWITCHES

DETECTOR SWITCHES

DIP SWITCHES

KEYLOCK SWITCHES

NAVIGATION SWITCHES

PUSHBUTTON ROCKER SWITCHES

ROTARY

SLIDE SWITCHES

SNAP ACTION SWITCHES

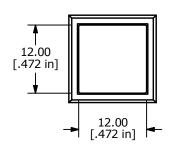
TACTILE SWITCHES

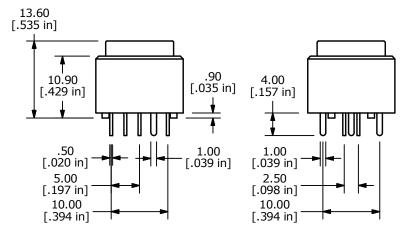
TOGGLE SWITCHES

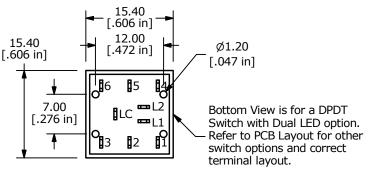
OPTIONS

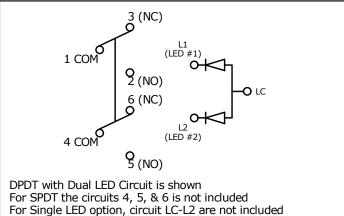
2

# **ACTUATOR OPTIONS -**SQUARE FLAT



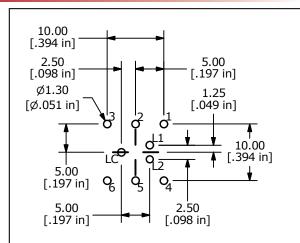






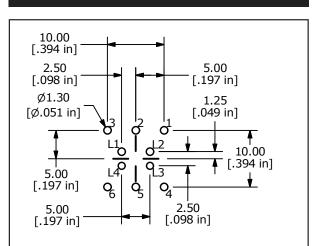
For No LED option, circuits LC-L1 & LC-L2 are not included

SCHEMATIC - DUAL LED



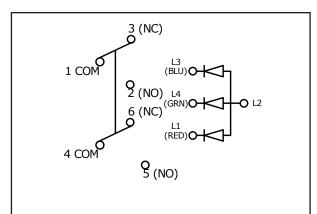
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#### **PCB LAYOUT - DUAL LED**



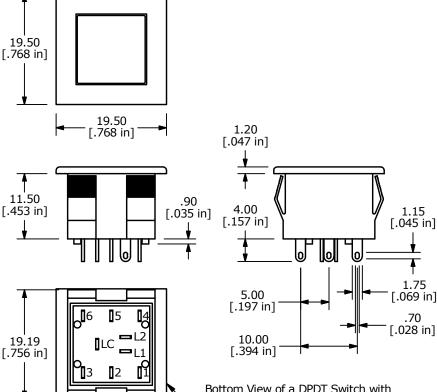
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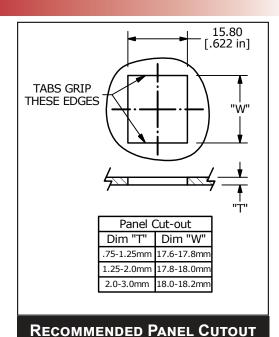
#### PCB LAYOUT - RGB LED



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

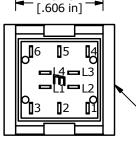
#### SCHEMATIC - RGB LED



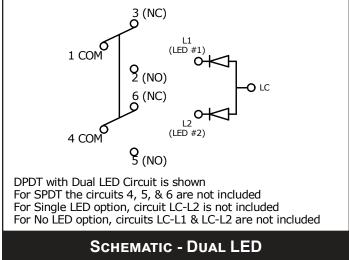


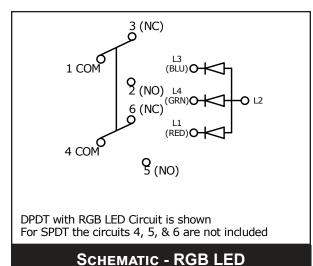
Bottom View of a DPDT Switch with Dual LED option. Refer to Schematic

for one LED, zero LED, and SPST options for correct terminal layout.



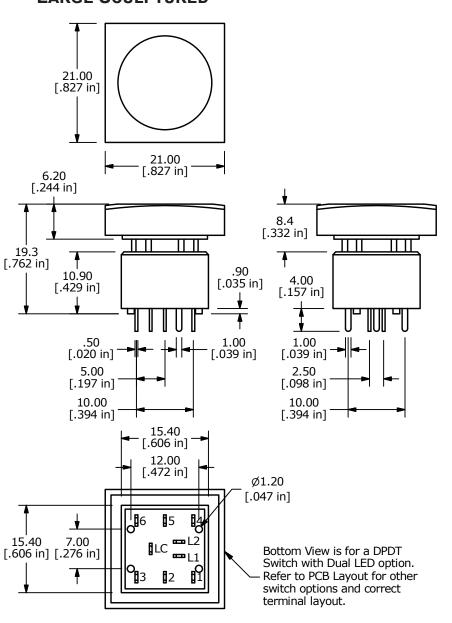
Bottom View of a DPDT Switch with RGB LED option. Refer to Schematic for SPST option and correct terminal layout.

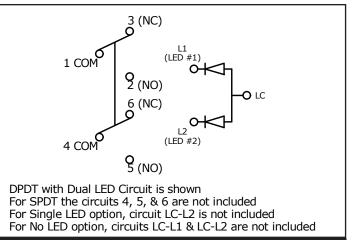




ANTI-VANDAL SWITCHES

# ACTUATOR OPTIONS - LARGE SCULPTURED



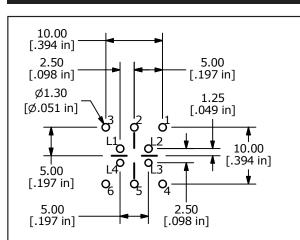


**SCHEMATIC - DUAL LED** 

#### 10.00 [.394 in] 5.00 2.50 [.098 in] [.197 in] Ø1.30 1.25 $[\emptyset.051 in]$ [.049 in] 10.00 [.394 in] 5.00 04-[.197 in] 2.50 [.098 in]

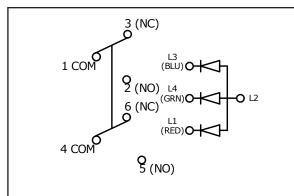
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#### **PCB LAYOUT - DUAL LED**



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

#### **PCB LAYOUT - RGB LED**



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

#### **SCHEMATIC - RGB LED**

