

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)

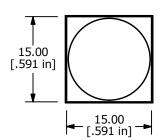
FEATURES & BENEFITS

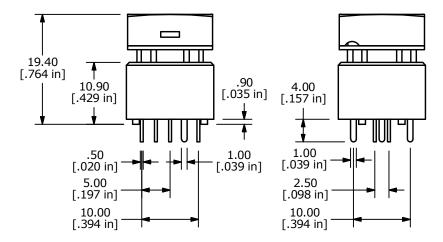
- Single pole or double pole functions
- Multiple color options including RGB color
- Multiple cap color and style options
- PC pin or solder lug termination
- · Latching or momentary options
- Gold or silver contact material

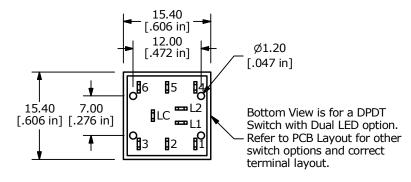
PART NUMBER CONFIGURATOR

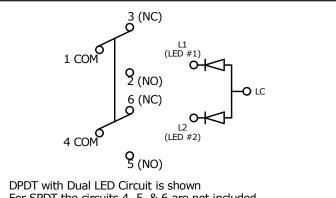
Contact Mechanical Material Configuration Cap Color Circuit **Termination** Cap Style **LED #1 LED #2** Series **Options** Options **Options** Options Options **Options Options Options** ULP 12- SPDT **EE** - Latching P1 - PC Pins Q - Silver SS - Square Sculptured NIL - No LED NIL - No LED CL1 - Clear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









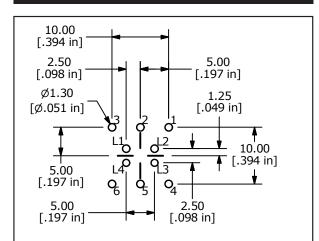
For SPDT the circuits 4, 5, & 6 are not included For Single LED option, circuit LC-L2 is not included For No LED option, circuits LC-L1 & LC-L2 are not included

SCHEMATIC - DUAL LED

10.00 [.394 in] 2.50 5.00 [.098 in] [.197 in] Ø1.30 1.25 [Ø.051 in] [.049 in] 10.00 **₮** [.394 in] 5.00 Q [.197 in] 2.50 [.098 in]

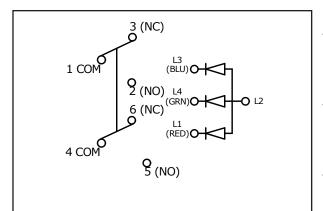
DPDT (ULP22) Layout is Shown For SPDT (ULP11) holes 4, 5, & 6 are not required. For Single LED option, hole L2 is not required For No LED option, holes L1, L2, & LC are not required

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

KEYLOCK SWITCHES

NAVIGATION SWITCHES

PUSHBUTTON SWITCHES

ROCKER SWITCHES

ROTARY SWITCHES

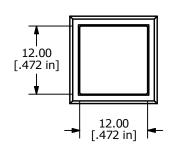
SLIDE SWITCHES

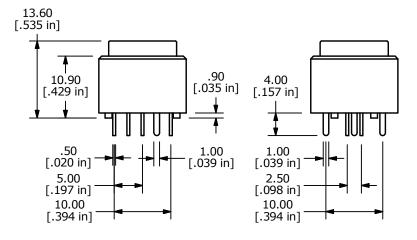
SNAP ACTION
SWITCHES

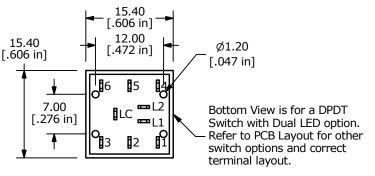
TACTILE SWITCHES

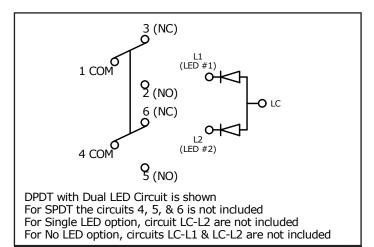
TOGGLE SWITCHES

ACTUATOR OPTIONS -SQUARE FLAT







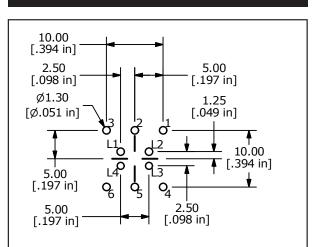


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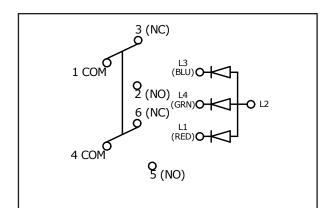
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PCB LAYOUT - DUAL LED



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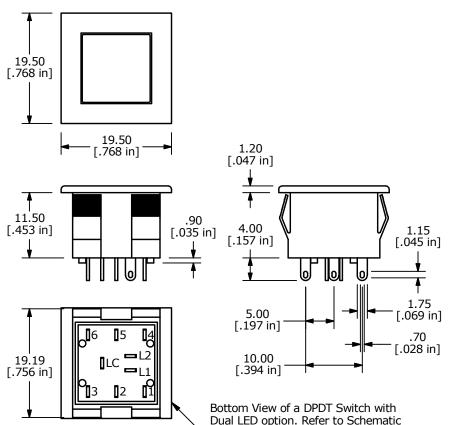
PCB LAYOUT - RGB LED

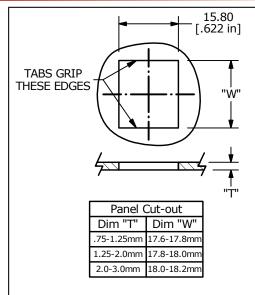


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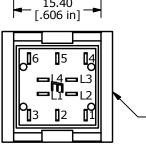
SCHEMATIC - RGB LED





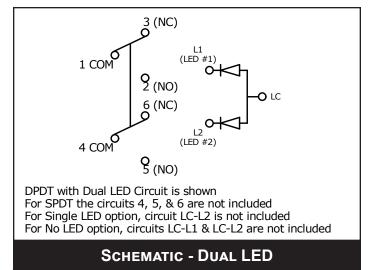


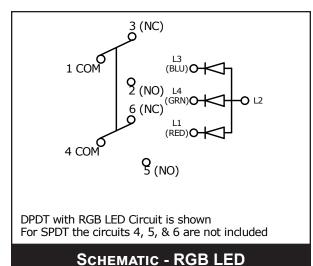
RECOMMENDED PANEL CUTOUT



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

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





E+SWITCH®

800.867.2717

TOGGLE SWITCHES

SLIDE SWITCHES

SWITCHES

TACTILE SWITCHES

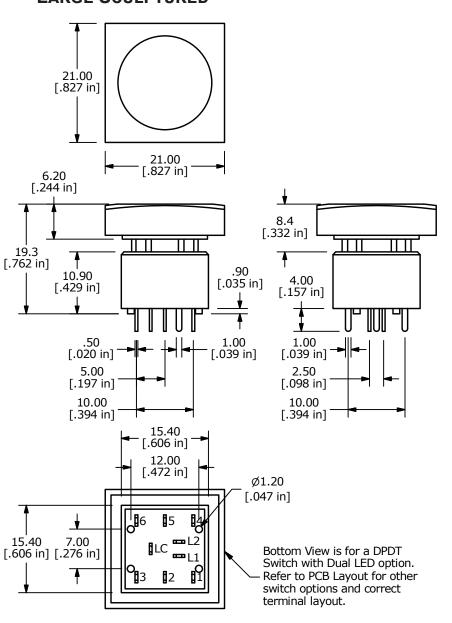
ANTI-VANDAL SWITCHES

DETECTOR SWITCHES

DIP

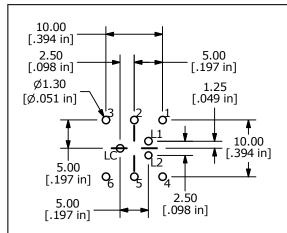
NAVIGATION SWITCHES

ACTUATOR OPTIONS -LARGE SCULPTURED



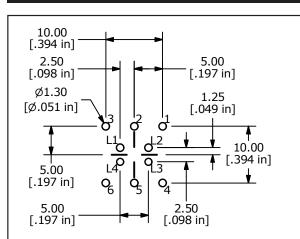
3 (NC) L1 (LED #1) 1 COM 2 (NO) O LC 6 (NC) L2 0 4 COM (LED #2) § (NO) DPDT with Dual LED Circuit is shown For SPDT the circuits 4, 5, & 6 are not included For Single LED option, circuit LC-L2 is not included For No LED option, circuits LC-L1 & LC-L2 are not included

SCHEMATIC - DUAL LED



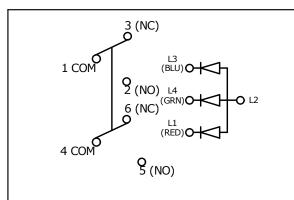
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PCB LAYOUT - DUAL LED



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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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

E-Switch:

ULP22EEM1RPMCL1REDGRN ULP22EEP1QSSNOCAPWHTRED ULP22OAM1RPMCL1RGB
ULP12OAM1RPMCL1RGB ULP12EEM1RPMCL1GRNNIL ULP12OAM1RPMCL1REDNIL
ULP12OAP1RSFCL1REDGRNBULK ULP12OAP1RSFCL1YELBLUBULK