

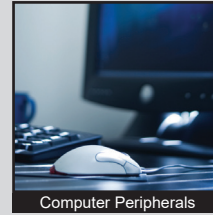
TL1220 SERIES TACT SWITCH



APPLICATIONS / MARKETS



Audio / Visual



Computer Peripherals



Consumer Electronics



Instrumentation



Telecommunication



Medical Equipment

RoHS

SPECIFICATIONS

Electrical Rating: 50mA @ 12VDC
Life Expectancy: 500,000 cycles
Contact Resistance: 100mΩ @ 1.5 VDC Max. Initial
Insulation Resistance: 100 MΩ Min. at 500VAC
Dielectric Strength: 500VAC for 1 min.
Operating Temperature: -20°C to 70°C
Operating Force: 180 gf ± 50gf
Travel: 0.20mm ± 0.1mm
Contact Arrangement: SPST

FEATURES & BENEFITS

- Multiple illuminated cap options
- Single color and bi-color LED options
- Sharp tactile response

PART NUMBER CONFIGURATOR

Series	Button	Bezel	Bezel Color	Button Color	LED Color	Graphic
TL 1 2 2 0	N 1	N	N	N	N	N
TL1220	N - No Button S1 - 7.5mm sq. short S2 - 7.5mm sq. tall S3 - 10x14 rect.* S4 - 10x19 rect.* S5 - 12mm sq. * (W-tran. white only) S6 - 9.6x13.7 rect.* (T-tran. green only) R1 - 7.0mm dia. R2 - 8.0mm dia. R3 - 10.0mm dia. R4 - 13.0mm dia. w/ I/O* R5 - 8.0mm dia. (W-tran. white only)****	N - No Bezel B - With Bezel	N - No Bezel B - Black G - Gray	N - No Button B - Black G - Gray R - Red S - Silver W - Translucent White** T - Translucent Green***	N - No LED R - Red G - Green Y - Yellow B - Blue W - White RG - Red-Green RY - Red-Yellow RB - Red-Blue YG - Yellow-Green YB - Yellow-Blue GB - Green-Blue	N - No Graphic

* The S3, S4, S5, S6 and R4 buttons are not available with bezel options.

** W-Translucent white is only available with R5 and S5 buttons

*** T-Translucent green is only available with S6 button

**** R5 is only available with bezel option

Specifications subject to change without notice 9.27.2018



E-SWITCH®

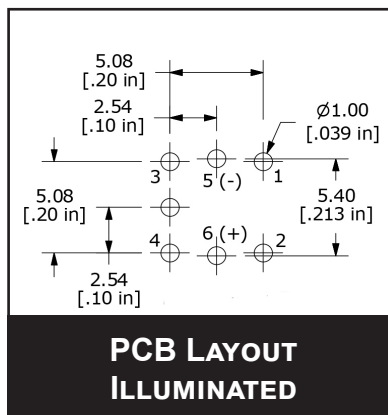
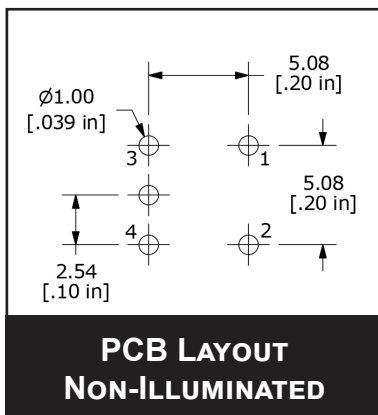
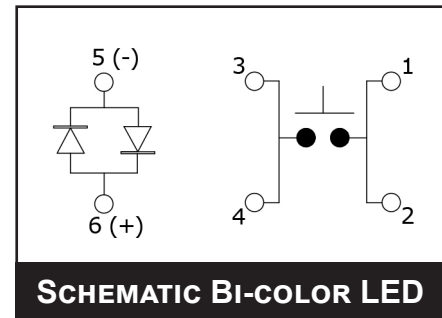
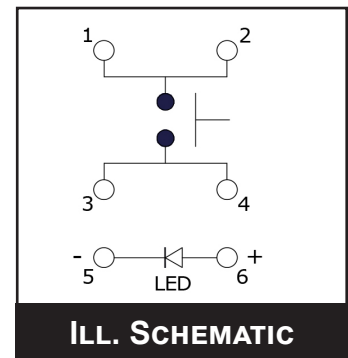
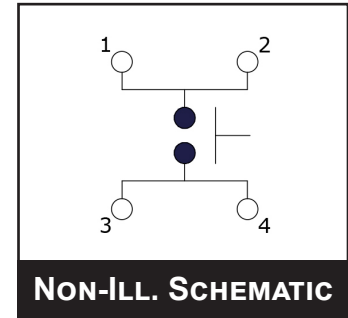
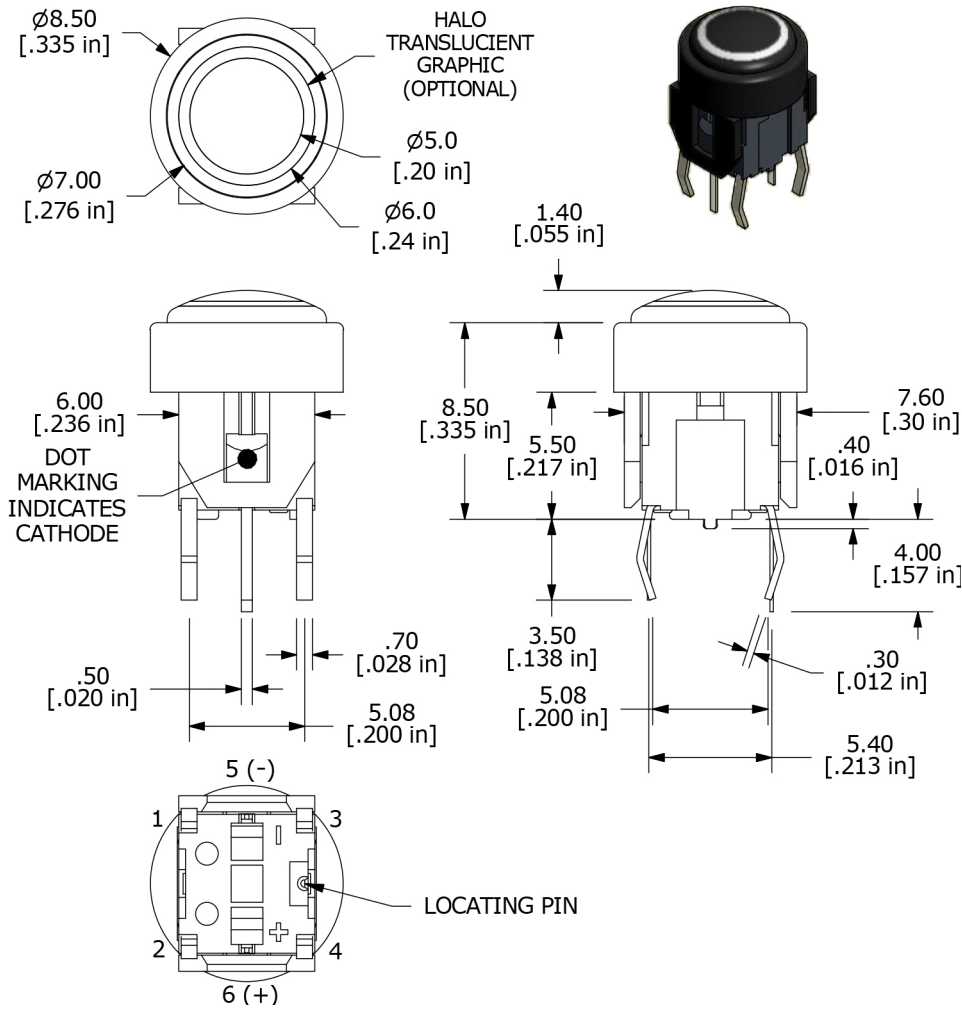
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1

TL1220 SERIES TACT SWITCH

R1 BUTTON - 7MM DIA.



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2

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

Technical drawing of the 5-pin LED package showing top, side, and bottom views with dimensions in inches and millimeters.

Top View Dimensions:

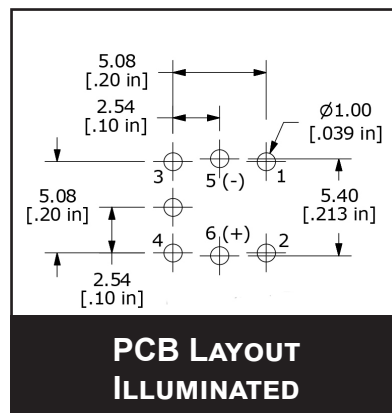
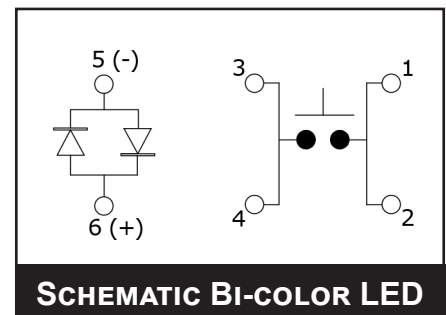
- Overall diameter: $\phi 10.00$ [.394 in]
- Inner diameter: $\phi 8.00$ [.315 in]
- LED lens diameter: $\phi 5.8$ [.23 in]
- Base diameter: $\phi 7.0$ [.28 in]
- HALO TRANSLUCENT GRAPHIC (OPTIONAL)

Side View Dimensions:

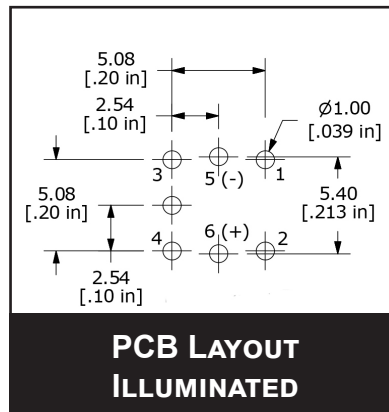
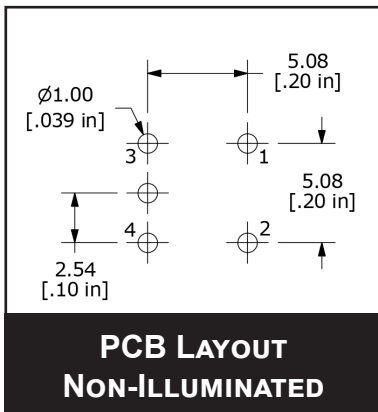
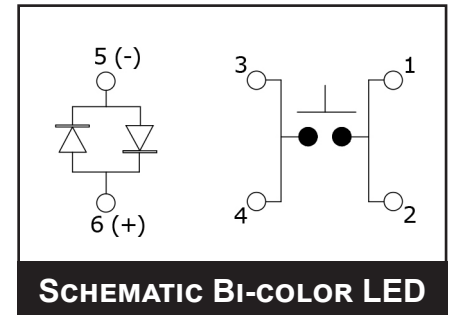
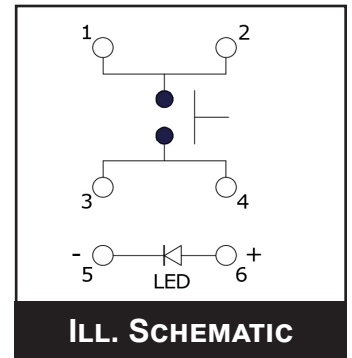
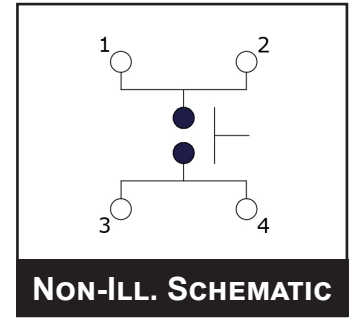
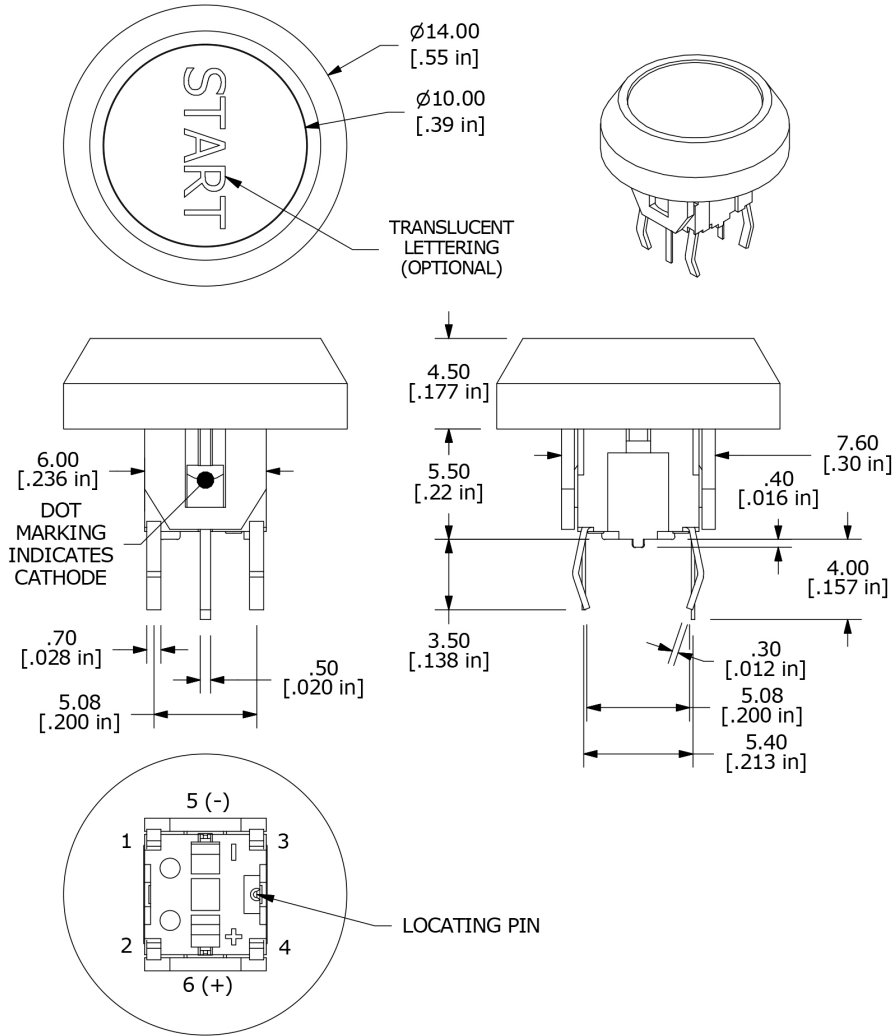
- LED lens height: 1.40 [.055 in]
- Base height: 8.50 [.335 in]
- Base width: 5.50 [.217 in]
- Base width (bottom): 7.60 [.30 in]
- Base width (bottom): .40 [.016 in]
- Base width (bottom): 4.00 [.157 in]
- Base width (bottom): .30 [.012 in]
- Base width (bottom): 5.08 [.200 in]
- Base width (bottom): 5.40 [.213 in]
- Base width (bottom): 3.50 [.138 in]
- Base width (bottom): .70 [.028 in]
- Base width (bottom): .50 [.020 in]
- Base width (bottom): 5.08 [.200 in]

Bottom View Dimensions:

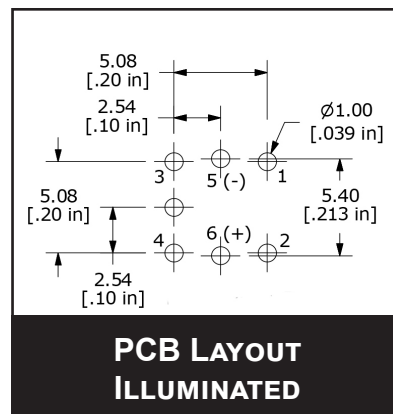
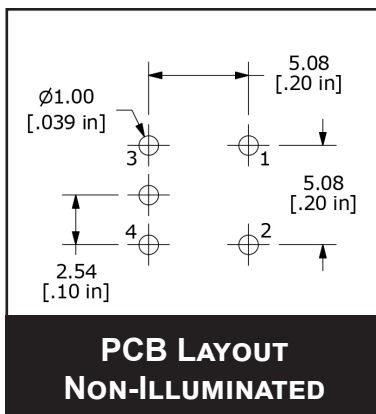
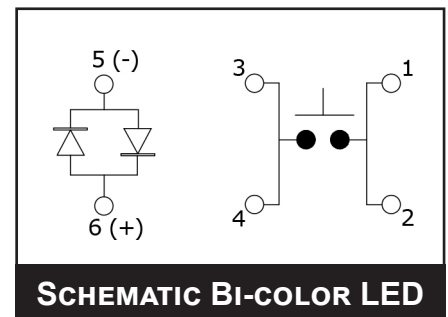
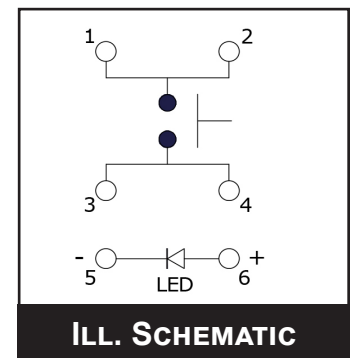
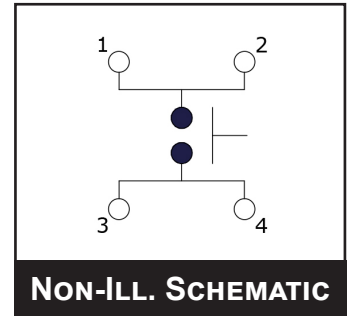
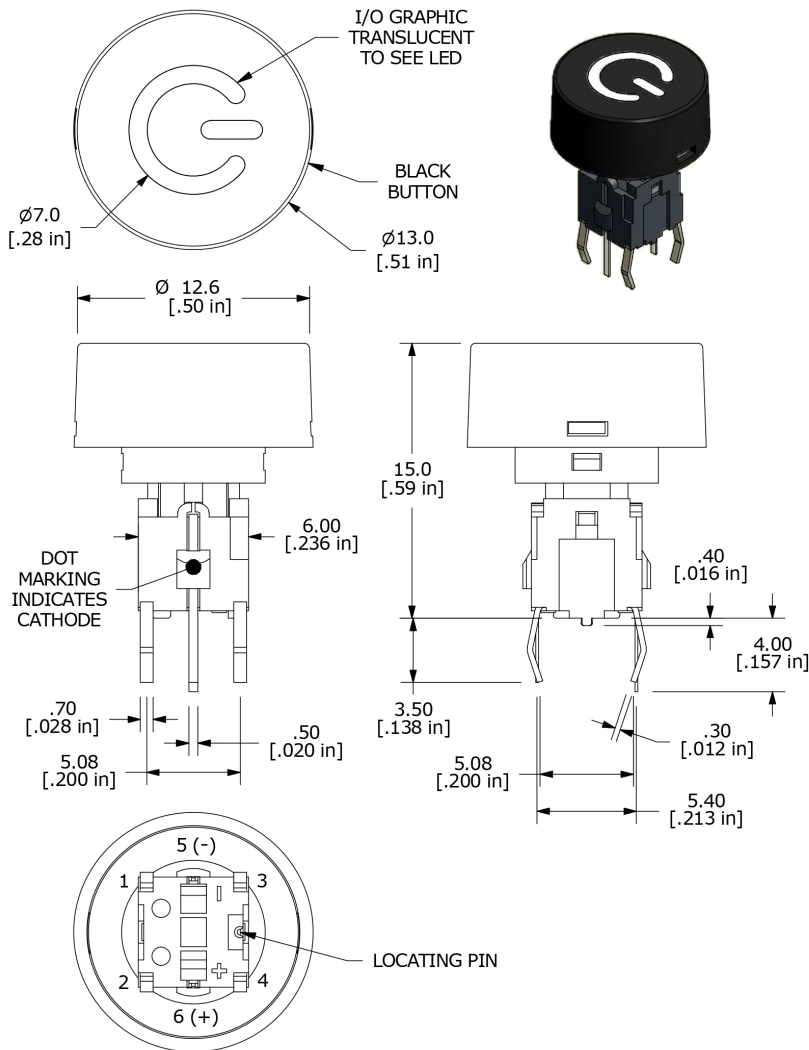
- Pin 1: 5 (-)
- Pin 2: 6 (+)
- Pin 3: 1
- Pin 4: 3
- Pin 5: 4
- LOCATING PIN



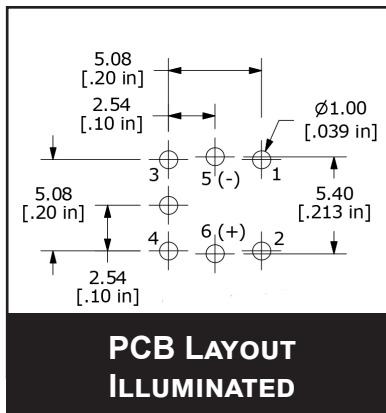
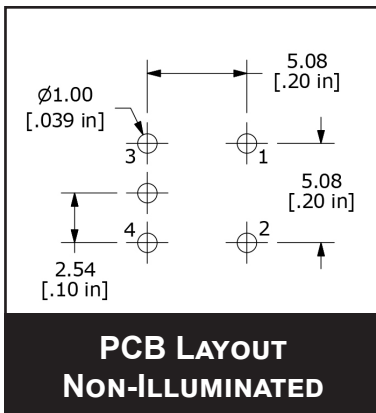
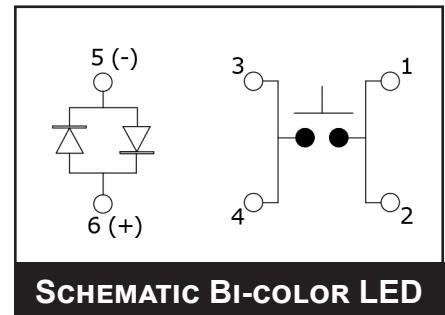
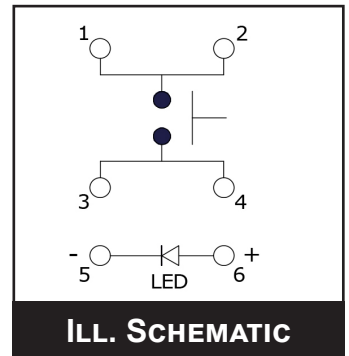
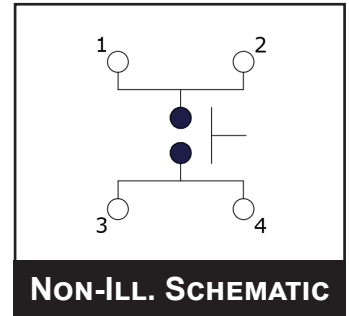
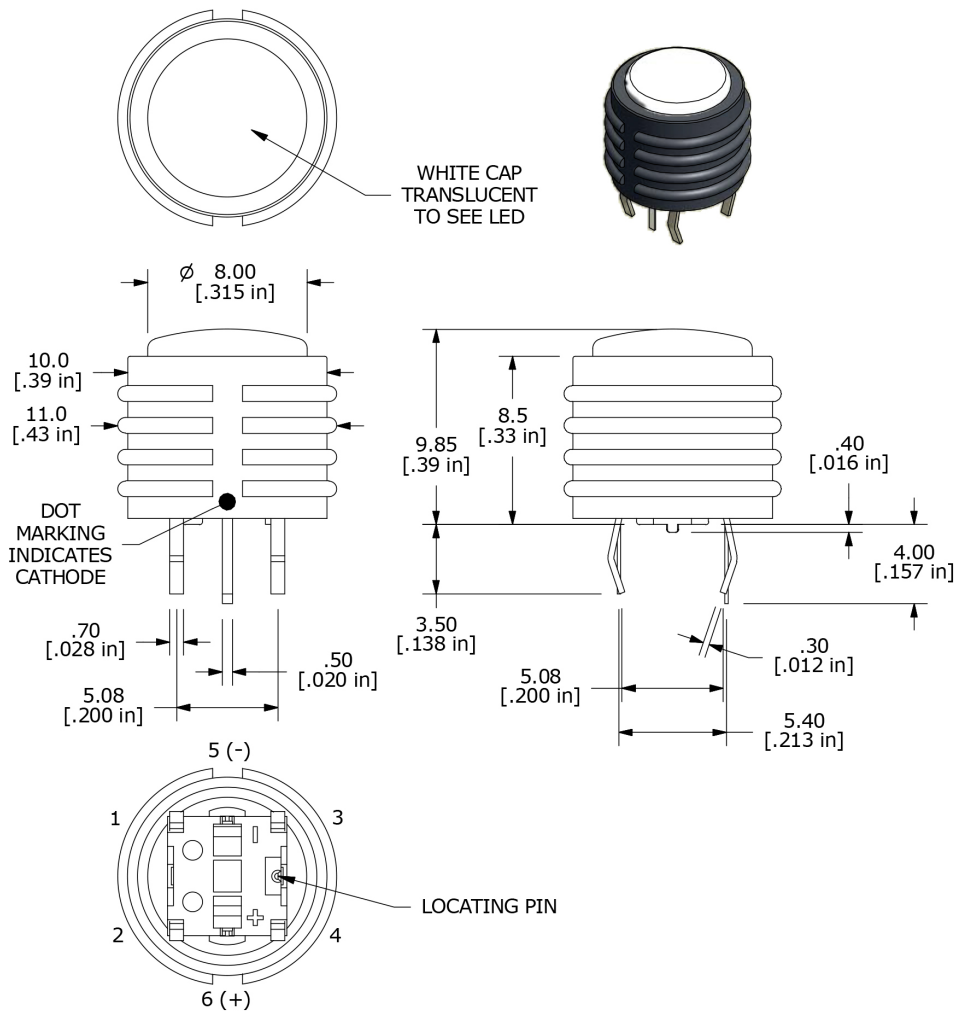
R3 BUTTON - 10MM DIA.



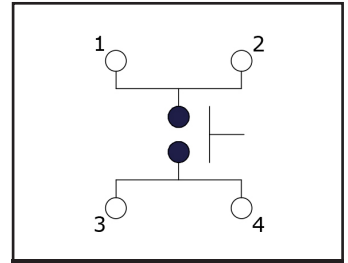
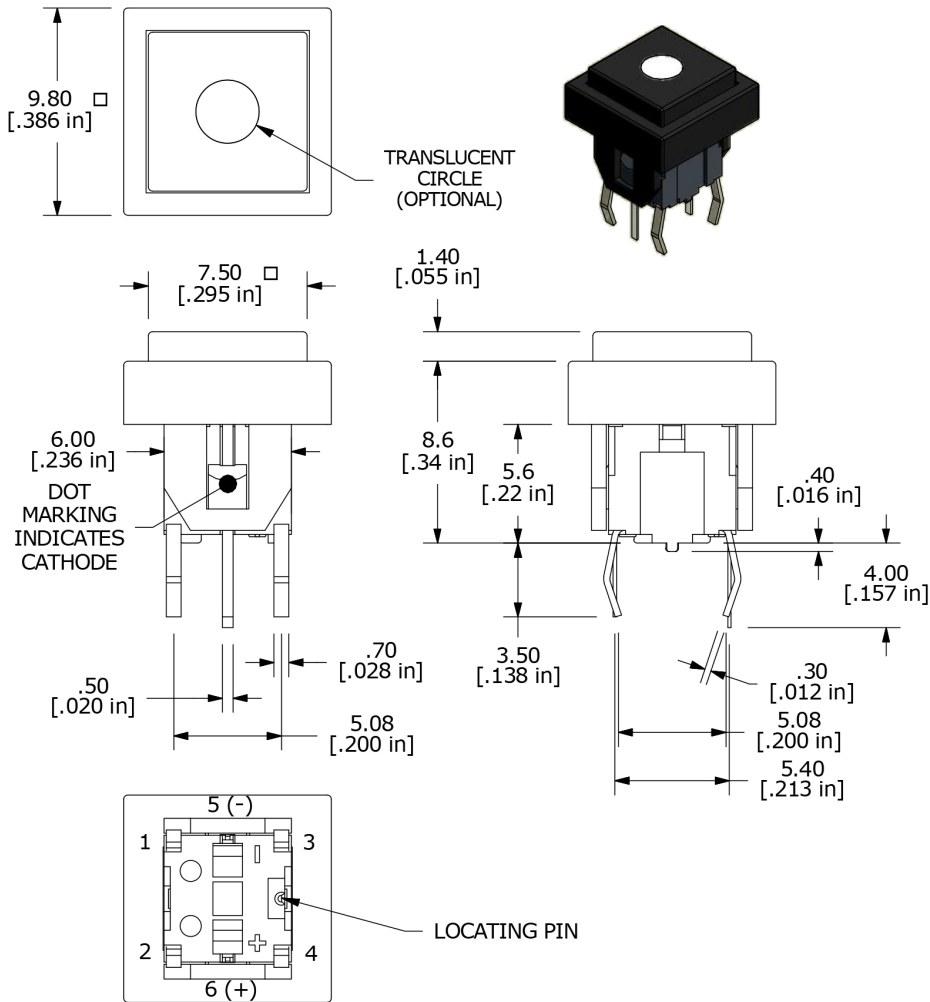
R4 BUTTON - 13MM DIA. W/ ILLUMINATED I/O



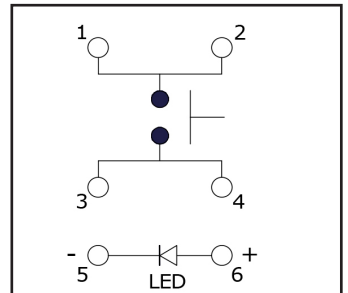
R5 BUTTON - 8MM DIA. TRANSLUCENT



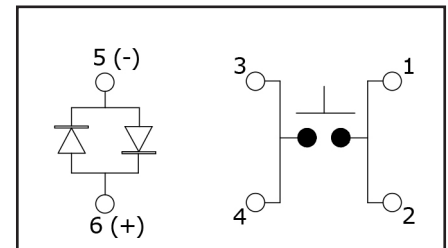
S1 BUTTON - 7.5MM SQUARE SHORT



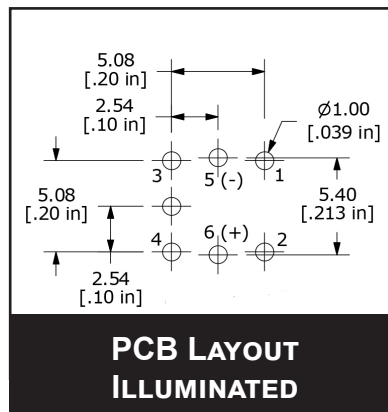
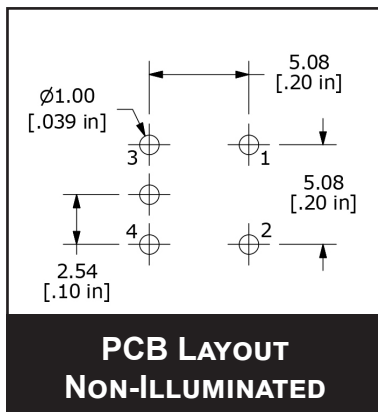
NON-ILL. SCHEMATIC



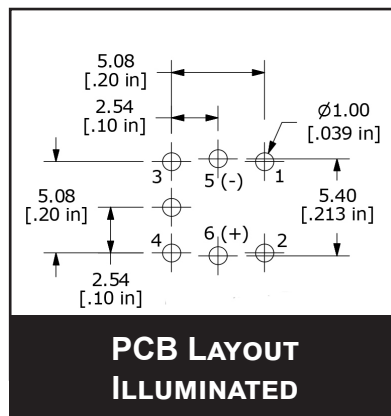
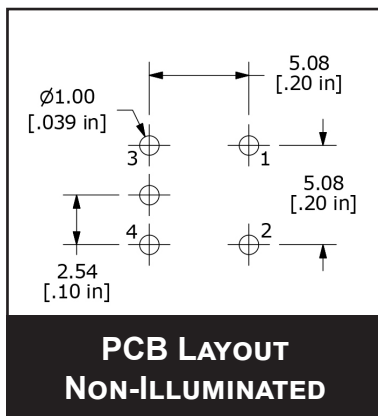
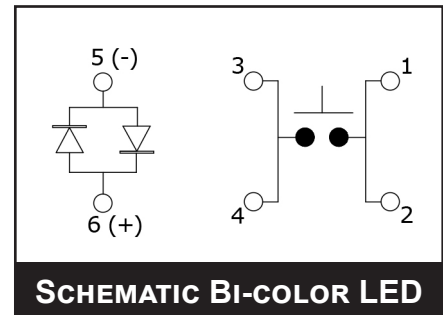
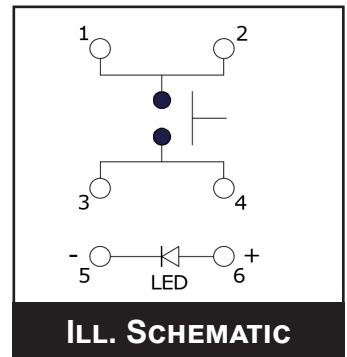
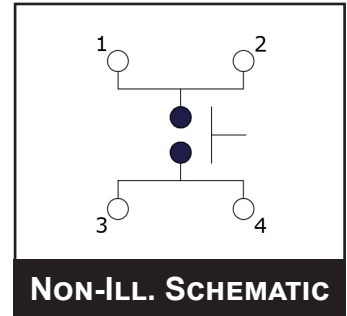
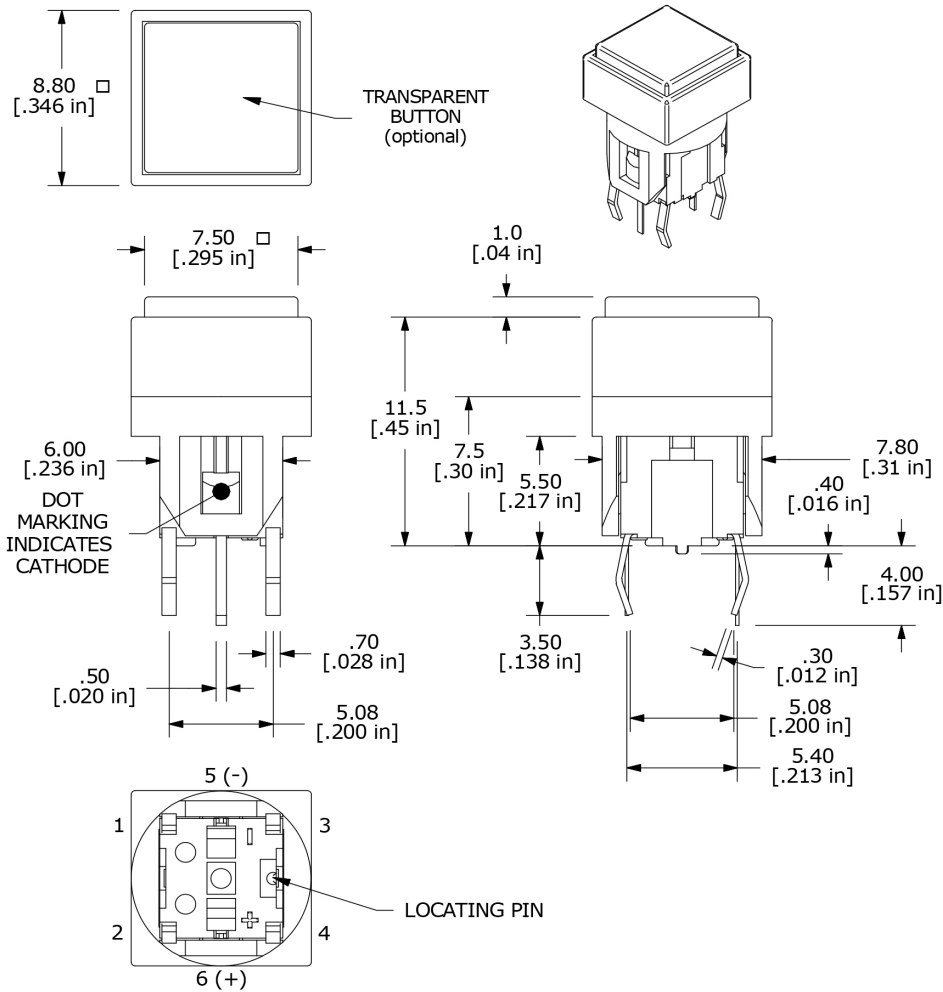
ILL. SCHEMATIC



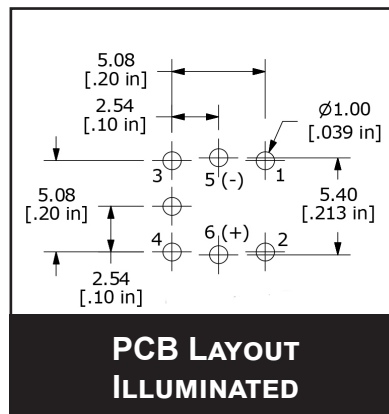
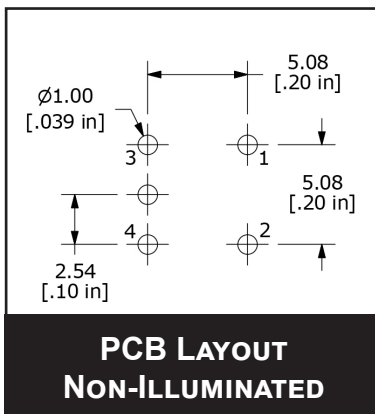
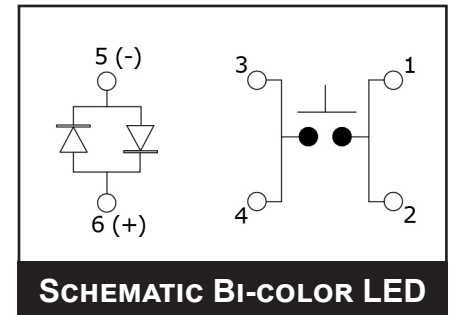
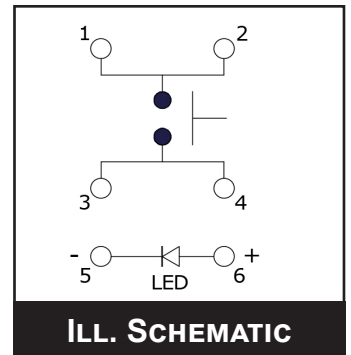
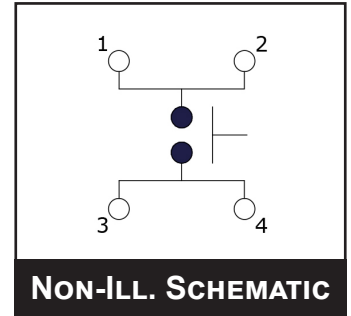
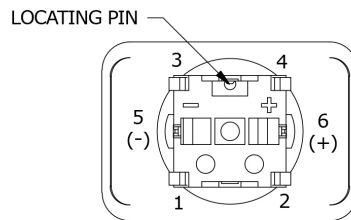
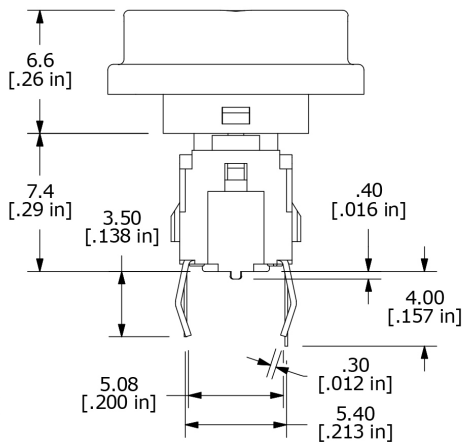
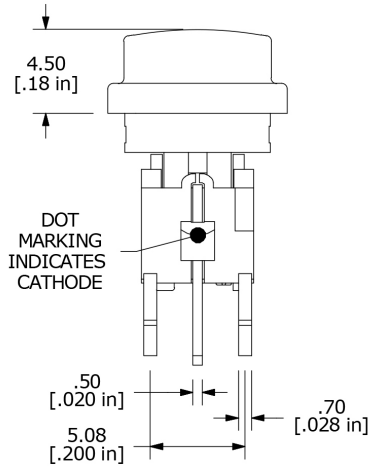
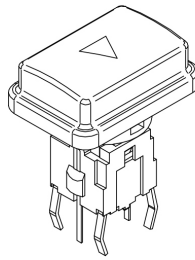
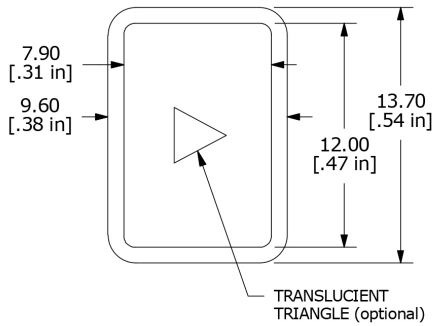
SCHEMATIC BI-COLOR LED



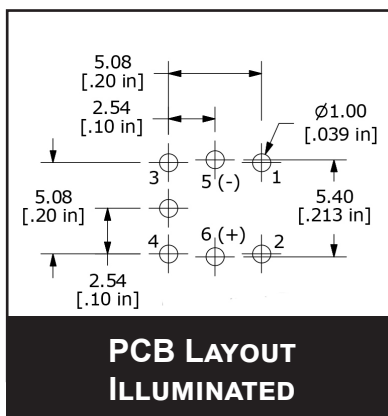
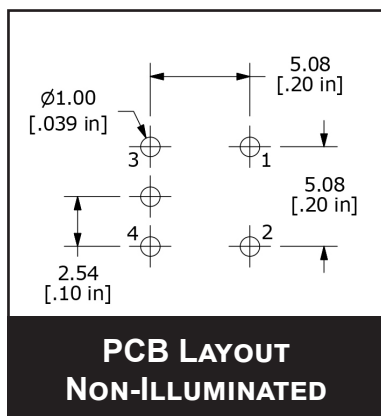
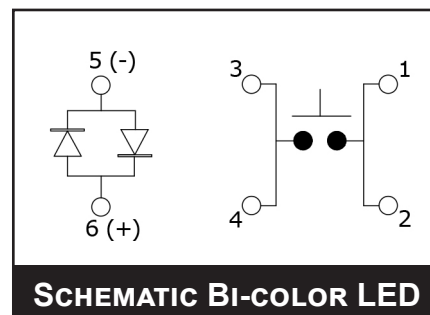
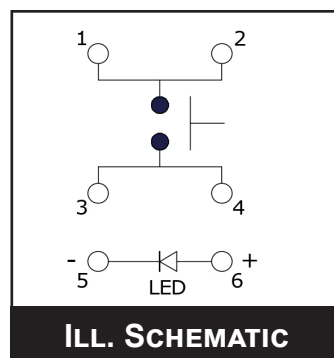
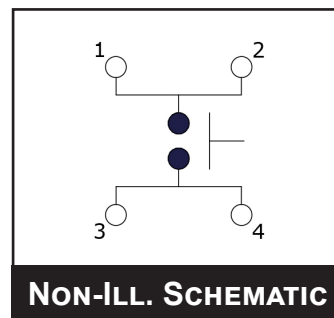
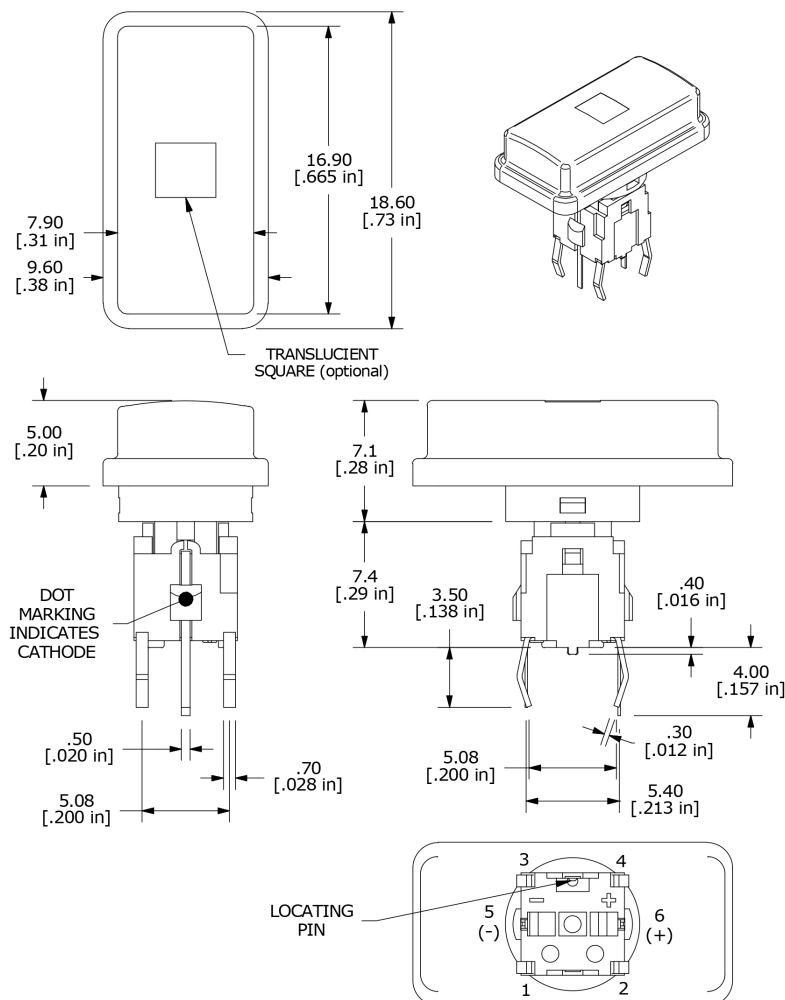
S2 BUTTON - 7.5 MM SQUARE TALL



S3 BUTTON - 10x14MM RECTANGLE

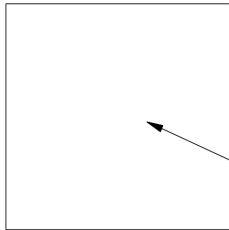


S4 BUTTON - 10x19MM RECTANGLE

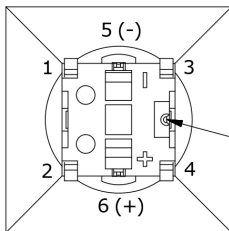
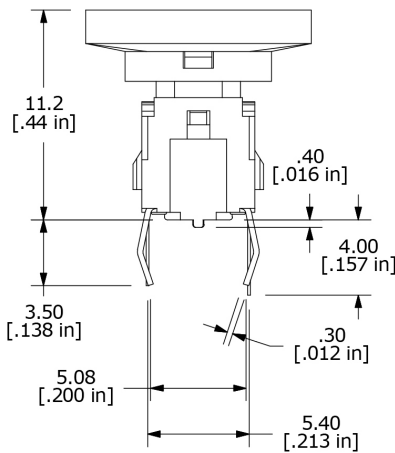
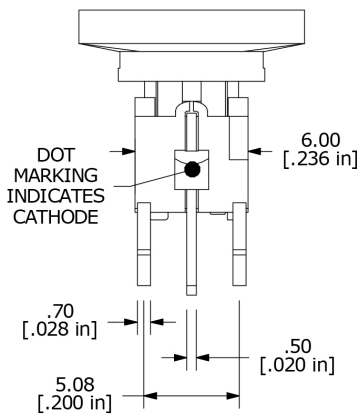
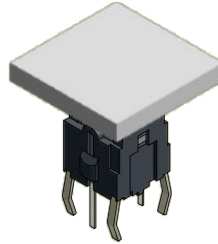


S5 BUTTON - 12MM SQUARE

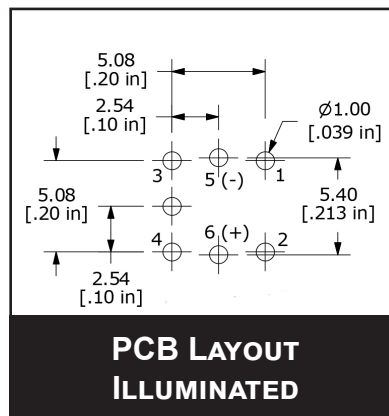
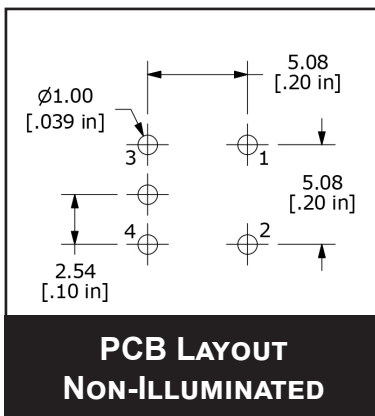
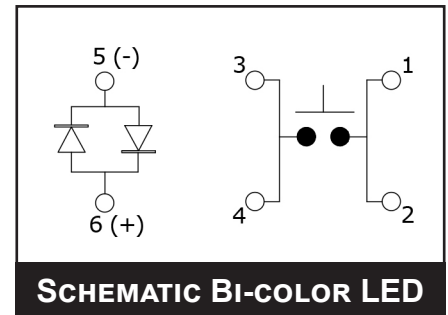
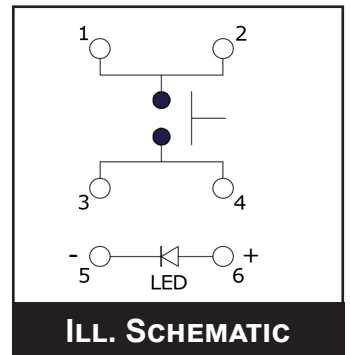
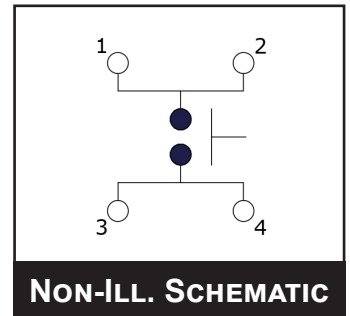
12.00
[.472 in]



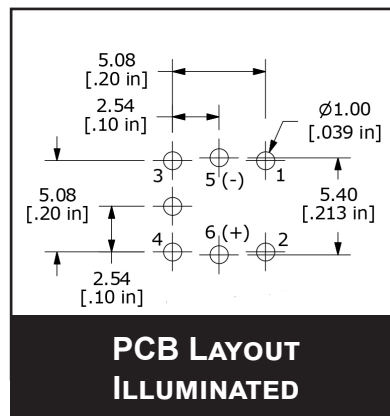
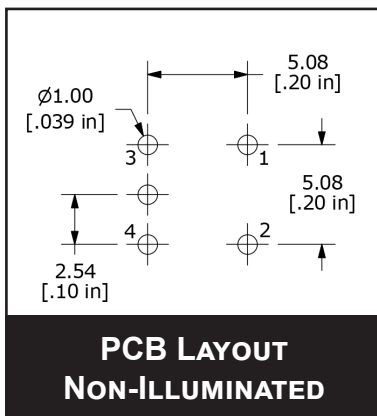
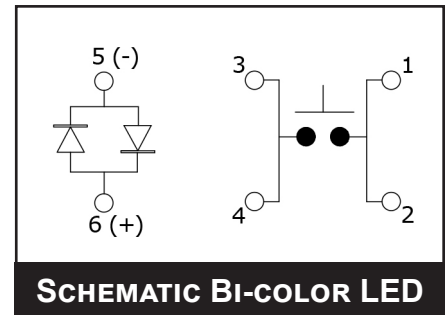
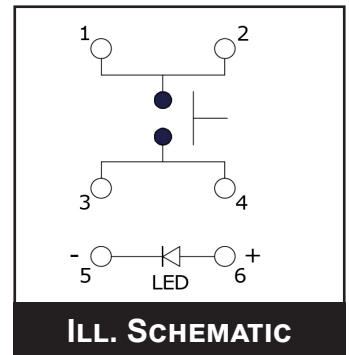
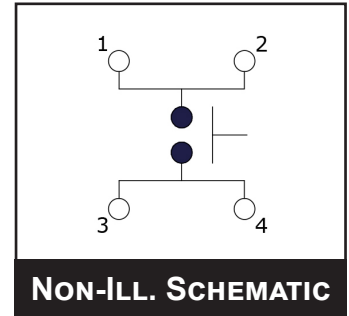
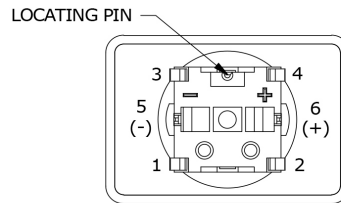
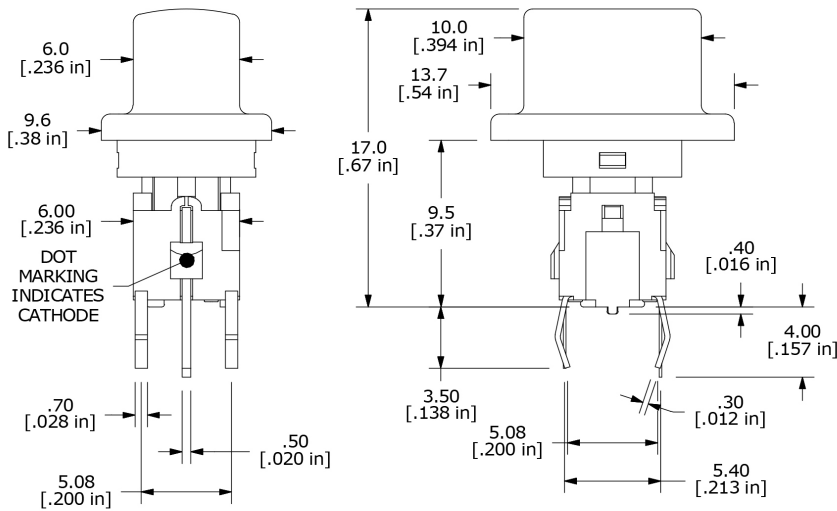
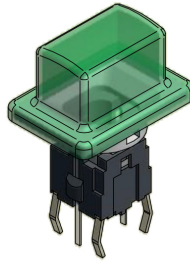
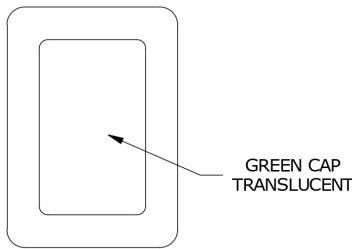
WHITE CAP
TRANSLUCENT
TO SEE LED



LOCATING PIN



S6 BUTTON - 9.6x13.7MM RECTANGLE GREEN TRANSLUCENT



Mouser Electronics

Authorized Distributor

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E-Switch:

[TL1220R1BBBRG-HALO](#) [TL1220R1BBBYB-HALO](#) [TL1220S1NNBGN](#) [TL1220R2BBBNN](#) [TL1220R2BGGNN](#)
[TL1220R1NNBGHALO](#) [TL1220R1NNBRG-HALO](#) [TL1220R3BBBBB-HALO](#) [TL1220R3BBBY-HALO](#) [TL1220R1BBBR-](#)
[HALO](#) [TL1220R5BBWRN](#) [TL1220S5NNWRN](#) [TL1220S6NNTGN](#) [TL1220R1NNSRG-HALO](#) [TL1220R2BGGRHALO](#)
[TL1220R3NNBRG-POWER](#) [TL1220R2BBBRG-POWER](#) [TL1220R2BGGWHALO](#) [TL1220R3NNBR-HALO](#)
[TL1220R4NNBR](#) [TL1220R2BGGYHALO](#) [TL1220R3BBBRG-POWER](#) [TL1220R2BGGBHALO](#) [TL1220R3BBBR-HALO](#)
[TL1220S1BBBNN](#) [TL1220R1BBBW-HALO](#) [TL1220R2BGGGHALO](#) [TL1220S3NNBGTRIANGLE](#) [TL1220R2BBBRB-](#)
[HALO](#) [TL1220R1BBBG-POWER](#) [TL1220S2BBGNN](#) [TL1220R2BBBOG-POWER](#) [TL1220S3NNBWTRIANG](#)
[TL1220S4NNBB-SQUARE](#) [TL1220R3BBBG-HALO](#)