

K5V Illuminated Tact Switch

Features

- Gold plated dome contact SPST/SPDT
- Excellent ergonomics
- High bright leds
- Reduced space usage on board
- 40 N overload
- Tape and reel
- RoHS compliant and compatible

Typical Applications

- When backlighting and switch are required to be a "2 in 1" component
- The dome contact secures a superior contact reliability in time
- The ergonomics of K5V provides a long travel, a sharp tactile feel and an audible click
- Server, storage, automotive, network infrastructure, medical



Specification

FUNCTION: momentary action

CONTACT ARRANGEMENT: Normally Open + Normally Closed

TERMINALS: SMT with positioning pegs

Mechanical

Version	Operating force FA ¹ Newtons (grams)	Operating life (operations)	Travel (total travel) mm(mm)
THT, SMT, PM	4.0 (400)	25,000	1.2 (2.4)

¹ Tolerances of operating force FA is $\pm 25\%$.

Packaging

THT:

60 pieces per tray; 300 pieces per box

SMT:

330 pieces per reel (reel ϕ 360mm)

PM:

60 pieces per tray; 300 pieces per box

LED Characteristics

LED COLOR: White

TEST CONDITIONS: 20 mA

LUMINOUS INTENSITY $I_F = 20$ mA

MIN. 110 mcd
TYP. 220 mcd
MAX. 320 mcd

MAX VOLTAGE: 4 V

Electrical

POWER MIN/MAX: 0.02VA / 1.0VA

VOLTAGE MIN/MAX: 20mVdc – 32 Vdc

CURRENT MIN/MAX: 0.1mA – 100mA

CONTACT RESISTANCE: <150m Ω

INSULATION RESISTANCE: >1G Ω initial, >10M Ω after damp heat

BOUNCE TIME: <5ms

Environmental

OPERATING TEMPERATURE: -40°C to 85°C

STORAGE TEMPERATURE: -50°C to 85°C

RELATIVE HUMIDITY: 90 to 96% according to NF EN 60068-2-30

PROTECTION: dust protection and flux tight

OVERLOAD: 40N min

Process

SMT

Soldering: Compatible with the lead free soldering profile
No washing

THT

Soldering: Compatible with the lead free soldering profile
No washing

PM

Soldering: Low wattage soldering iron (25-50 watts max).
Solder time 3 seconds max. No washing

Materials

LEAD FREE

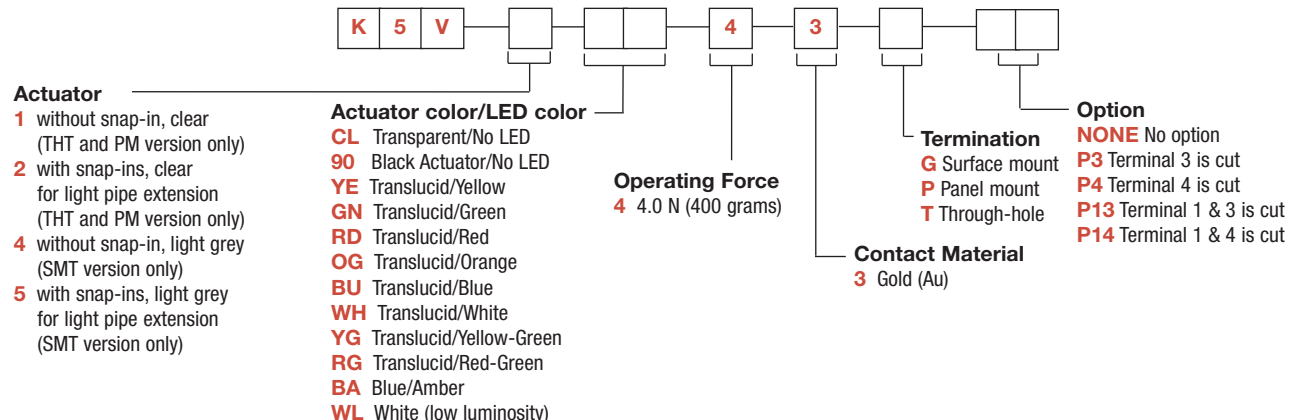
CONTACTS: Au over Ni

SOLDERING: Au over Ni

HOUSING: Thermoplastic UL94 HB

How To Order

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



16 july 12

B-51

Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

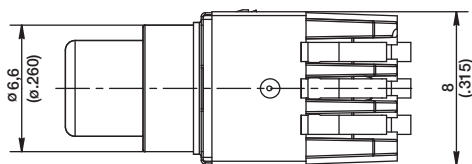
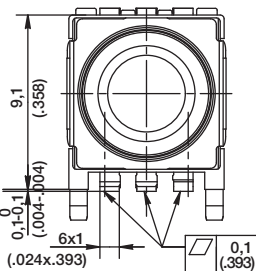
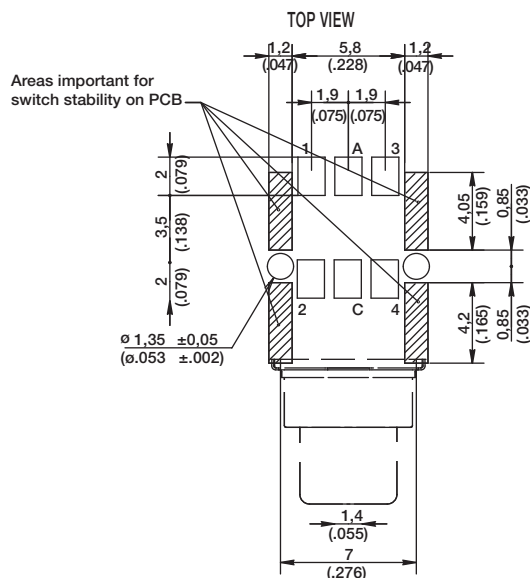
www.ck-components.com



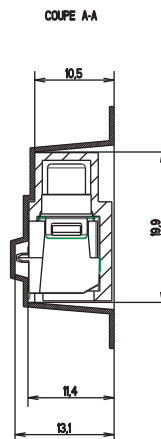
Tactile Switches

Tactile Switches

RECOMMENDED PCB LAYOUT (WITH HOLES)



Technical drawing of a multi-hole punch die. The drawing includes a side view at the top showing the profile of the die with a width of 155 and a hole diameter of $\text{Ø}175$. Below this is a top view of the die showing four rectangular holes. Dimensions for the top view include a total width of 39 ± 0.3 , a total length of 284 ± 0.1 , and a distance of 142 ± 0.1 between the centers of the first and second holes. The distance between the centers of the last two holes is 16. The diameter of the holes is $\text{Ø}15$. The drawing also shows a detail view of a hole with a diameter of $\text{Ø}175$ and a distance of 10.4 from the center to the edge. A direction of feed arrow is shown at the bottom right.



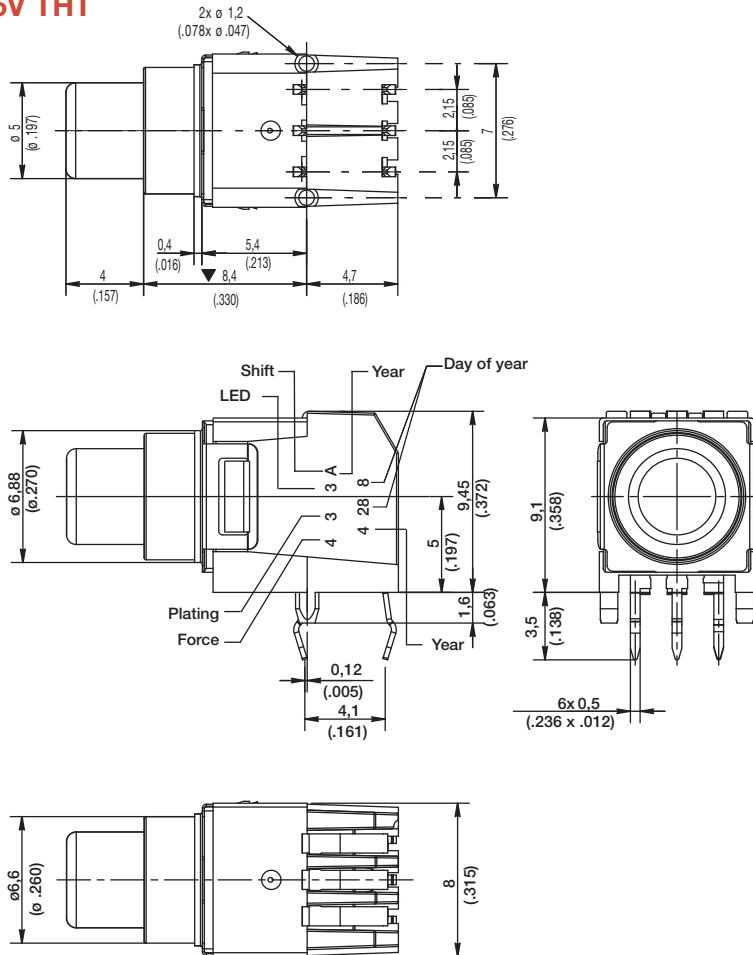
First Angle Projection

Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

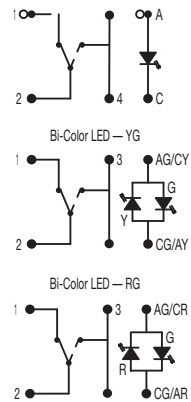
www.ck-components.com

K5V Illuminated Tact Switch

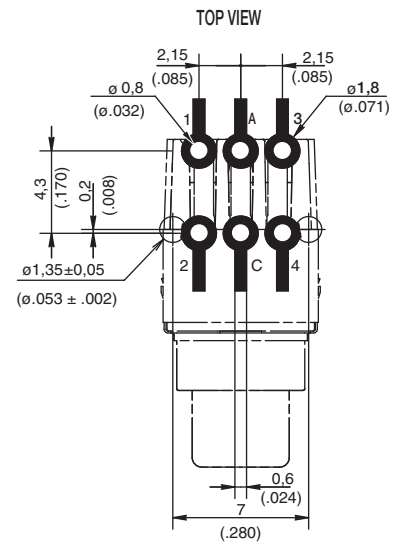
K5V THT



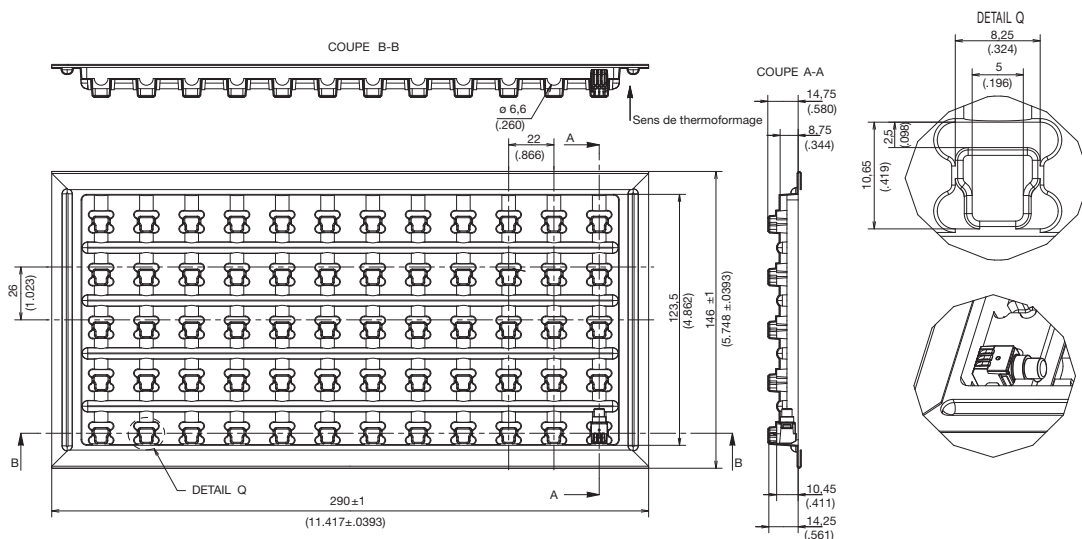
ELECTRICAL DIAGRAM



RECOMMENDED PCB LAYOUT (WITH HOLES)



TRAY



16 july 12

B-53

Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

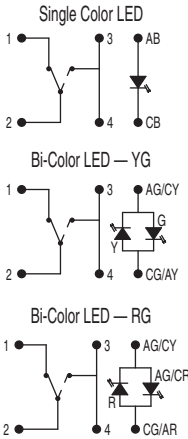
www.ck-components.com

K5V

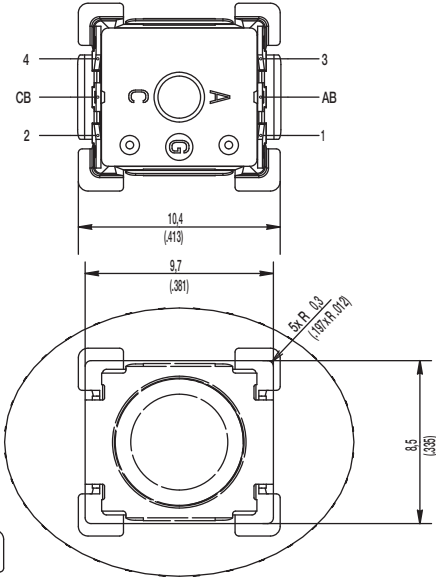
Illuminated Tact Switch

K5V PM

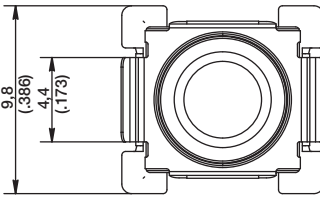
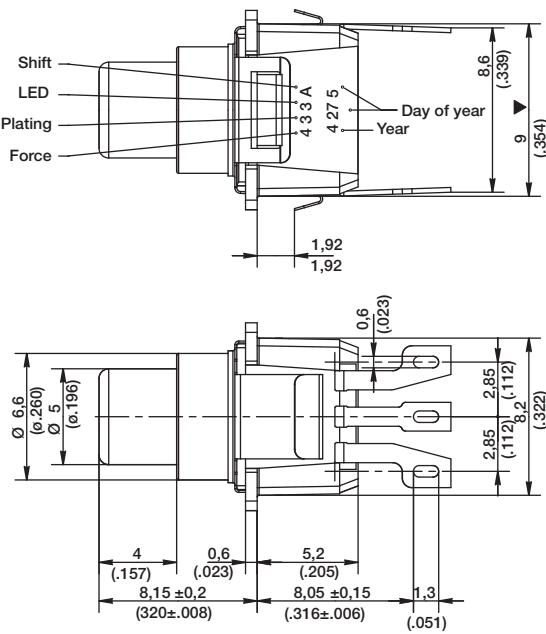
ELECTRICAL DIAGRAM



TERMINAL REFERENCES

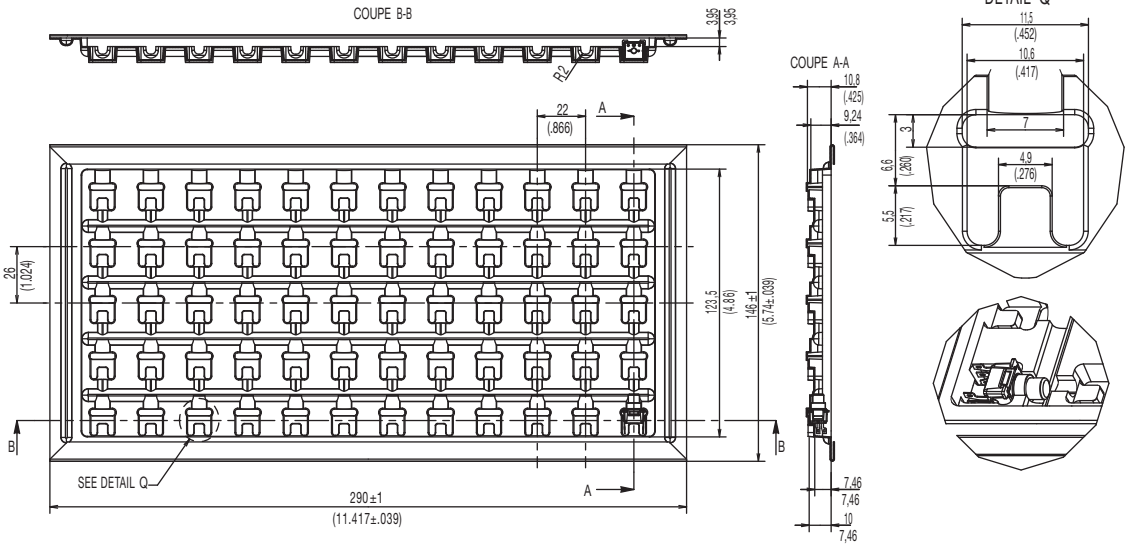


PRODUCT IDENTIFICATION AND DATE CODES



TRAY

SUITABLE FOR PANEL THICKNESS OF 1.8MM MAX



16 july 12

B-54

Dimensions are shown: mm (inches)
Specifications and dimensions subject to change

www.ck-components.com