

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

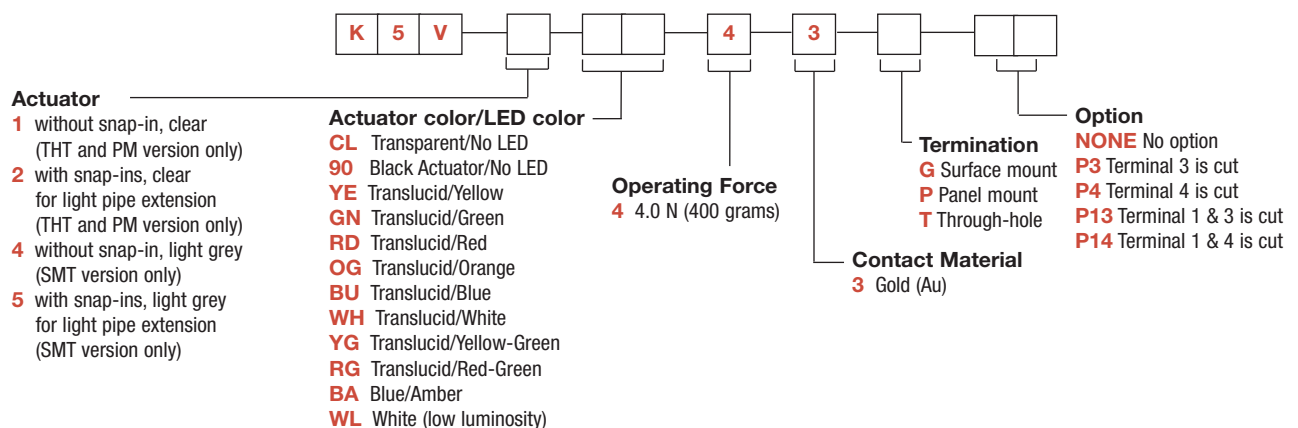
CONTACTS: Au over Ni

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.



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

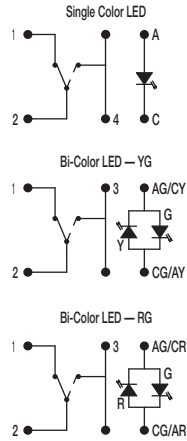
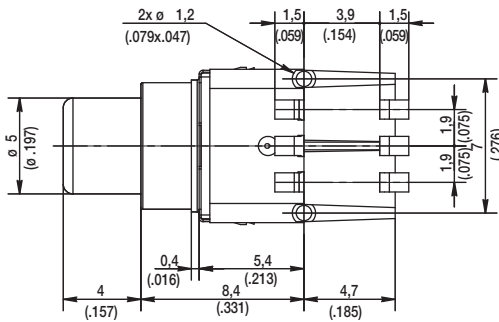
www.ck-components.com

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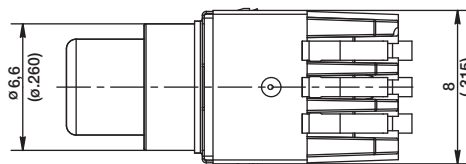
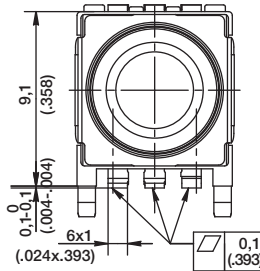
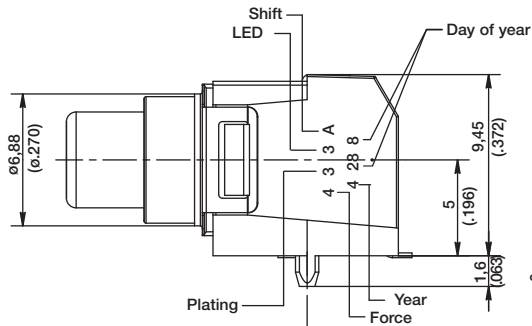
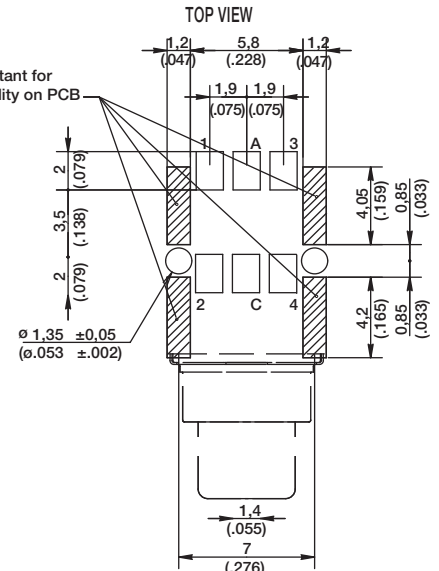
K5V SMT

ELECTRICAL DIAGRAM

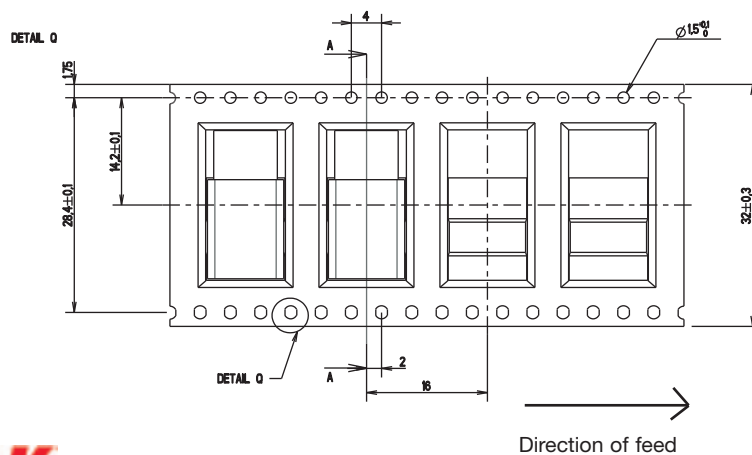
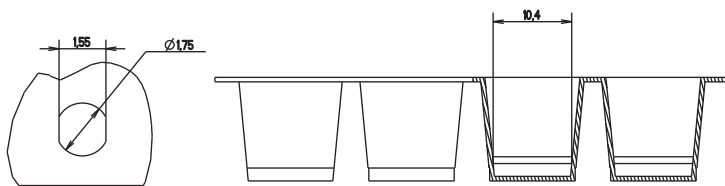
RECOMMENDED PCB LAYOUT (WITH HOLES)



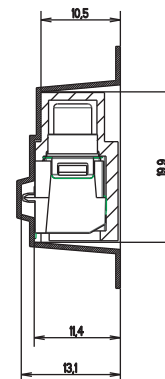
Areas important for
switch stability on PCB



TAPE & REEL



COUPE A-A

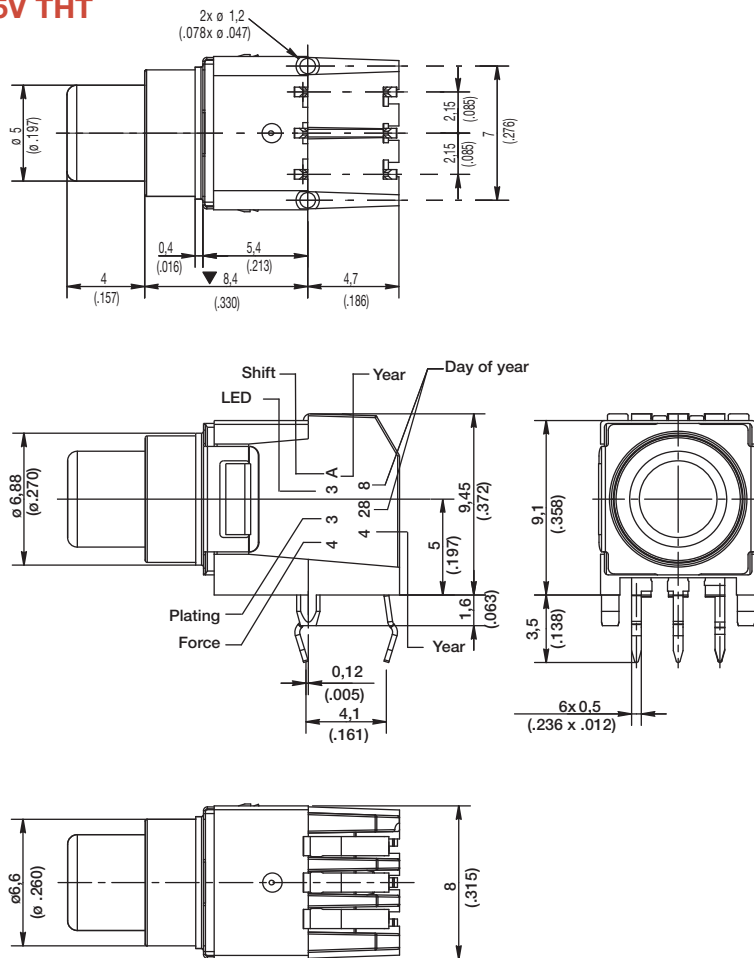


First Angle
Projection

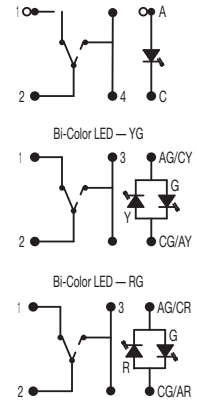
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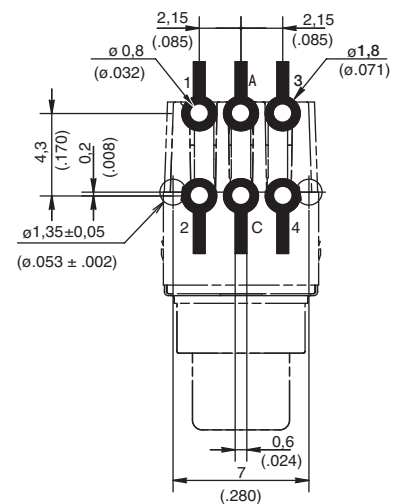
K5V THT



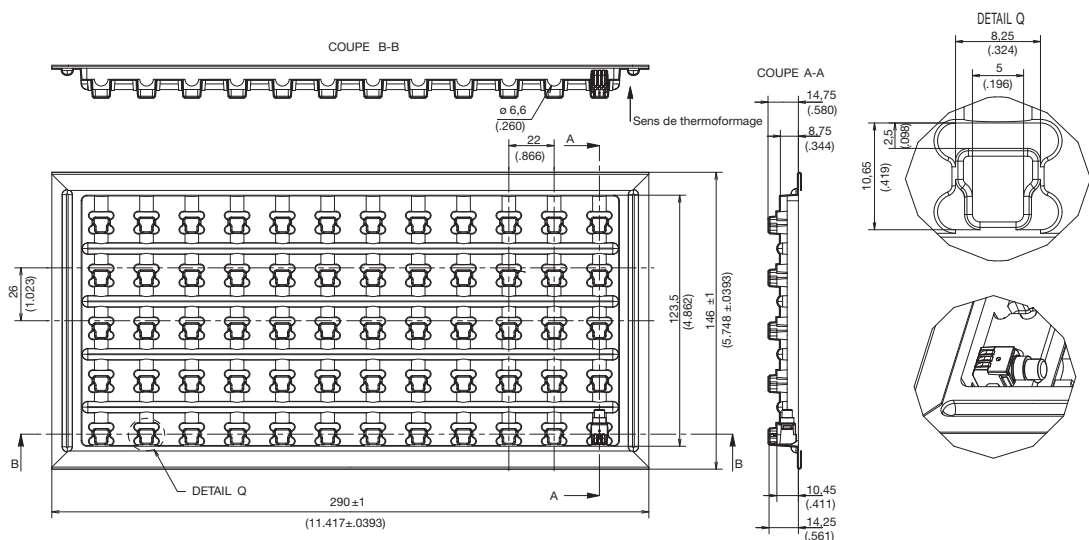
ELECTRICAL DIAGRAM



RECOMMENDED PCB LAYOUT (WITH HOLES) TOP VIEW



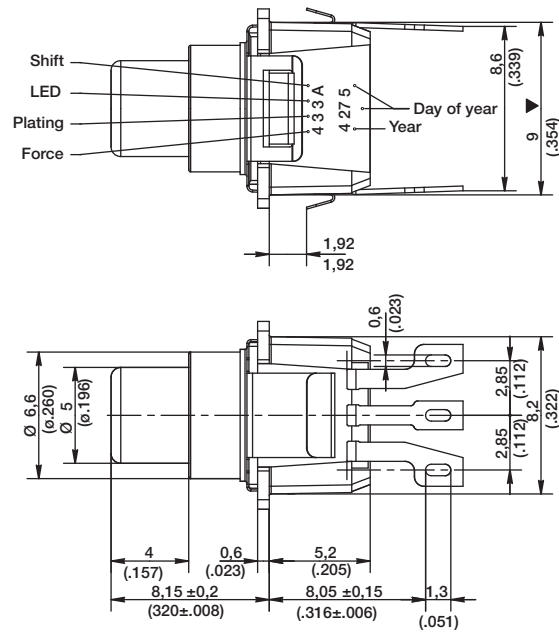
TRAY



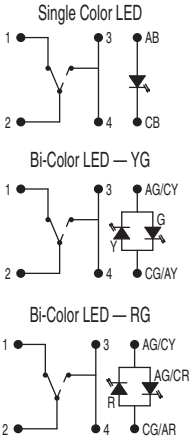
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K5V PM

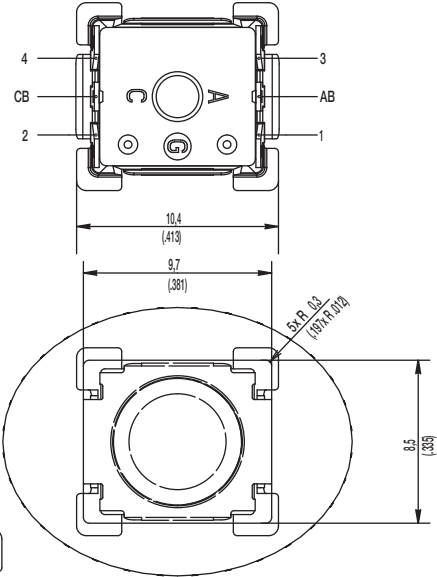
PRODUCT IDENTIFICATION AND DATE CODES



ELECTRICAL DIAGRAM



TERMINAL REFERENCES



TRAY

SUITABLE FOR PANEL THICKNESS OF 1.8MM MAX

