₩ НаноЭлектроникс



Switch



LED Push Button Switches series

KLS7-LED-TS

SPECIFICATIONS

Rating:50mA 12VDC

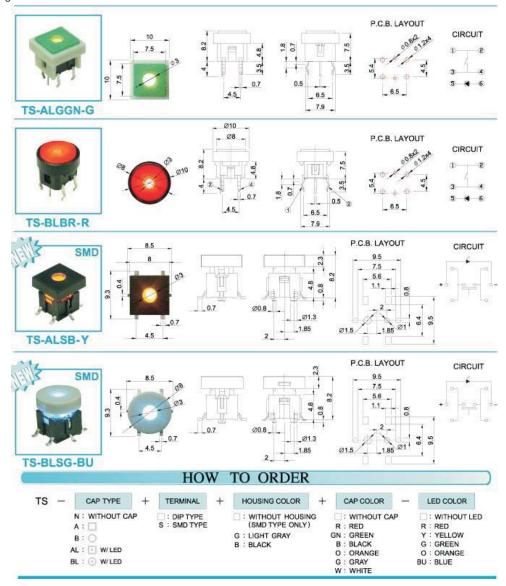
Insulation Resistance:100M Ω Min (at 500 VDC) Dielectric Strength:AC 250V (50/60 Hz for 1minute)

Contact Resistance $100m\Omega$ Max. (Initial) Electrically Life: 100,000 Cycles Min Ambient Temperature: -20 C \sim +70°C Operating Force: $180 \pm 50gf$, 250 5 0gf

Travel: 0.25 ± 0.1 mm

FEATURES:

Contact Reliability Clip type contacts are applied to ensure high reliability. For PC Board Terminals are IC pitched (multiple of 2.54mm). By a particular terminal shape, the switch tightly when solder-dipped. Protection from Flux Entry Terminals are all completely sealed by epoxy. Many LED lights are a available.







LED Push Button Switches series

KLS7-LED-SPA



SPECIFICATION:

SPA-A Type & SPA-M Type. 100mA. 30V DC. Current rating Voltage rating

Led rating Circuit

Total travel

Contact resistance Insulation resistance Operating temperature Operating force Life

Soldering temperature

50mA. 12V DC. See the table below DPDT. See the table below. SPST. 0.3±0.2mm. 100mΩ Max. (initial)

SPA-T Type.

DPDT.

Max. 1.9mm; Lock 1.5mm.

100mΩ Max. (initial)

100MΩ Min at 500V DC.

-36 C → +65 C.

200 ±80g.

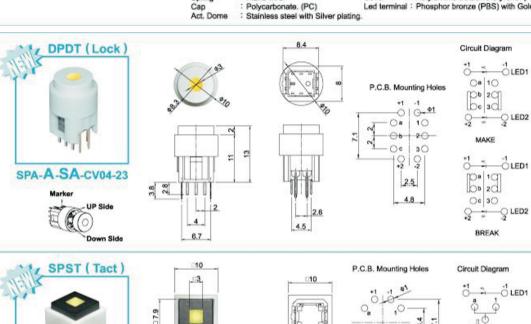
10,000 Cycles Min.

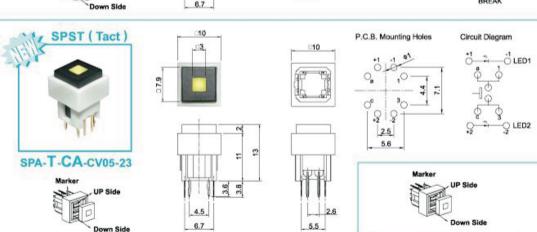
250 C for 3 sec. 100MΩ Min. +10 C - +60 C. 180±50g. 800,000 Cycles Min. : 250 C for 3 sec.

MATERIALS:

: Polyacetal. (POM) : Polyamide. (PA) Housing Lens Contact S/W Button : Polyamide. (PA) S/W Base

Polyamide. (PA)
Polyambate. (PC)
Phosphor bronze (PBS) with Silver plating.
Acrylonitrile Butadine Styrene. (ABS)
Phosphor bronze (PBS) with Gold plating. S/W Terminal : Brass with Silver plating. Spring : Piano wire. Spring Polycarbonate. (PC)
Stainless steel with Silver plating. Led terminal





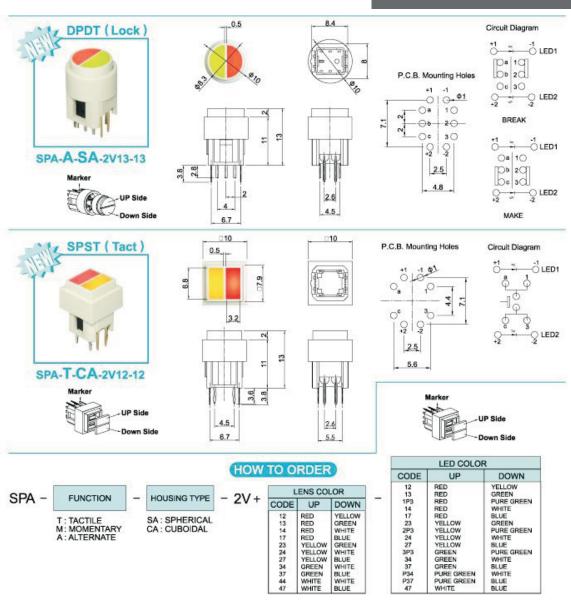




DIP Switch Series

KLS7-LED-SPA







LED Push Button Switches series

KLS7-LED-SPB

SPECIFICATIONS

Rating: 0.1A 30 VDC Operating Force: 150g Non Lock 180g Lock

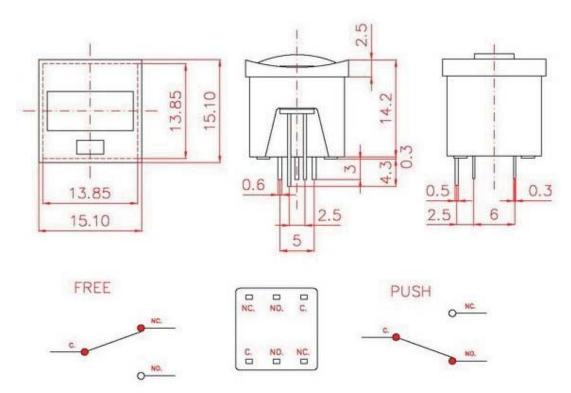
With LED

Insulation Resistance:100 M Ω (minDC 500V) Operating Temperature: 0 C \sim 55°C Mechanical Life: 100,000 cycles Electrical Life: 10,000 cycles

LED Color FUNCTION:

R=RedG=Green Y= Yellow







KLS electronic www.cnkls.com

LED Push Button Switches series

KLS7-LED-MP86





SPECIFICATION:

CIRCUIT :
CURRENT RATING :
VOLTAGE RATING :
CONTACT RESISTANCE :
INSULATION RESISTANCE :
OPERATING FORCE :
TOTAL TRAVEL :
OPERATING LIFE :
SOLDERING TEMPERATURE :

SOLDERING TEMPERATURE : 250°C Max. for 3 sec FUNCTION : Momentary OPERATING TEMPERATURE : +10°C ~ +60°C

SPDT

12mA.

24V DC.

100MΩ Min.

170gf ± 50gf

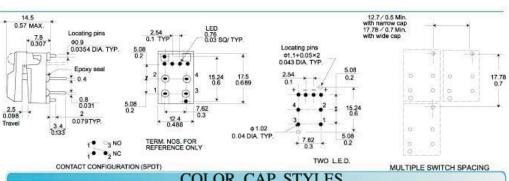
2.5mm±0.2mm

500,000 Cycles Min.

50mΩ Max.(initial)

MATERIALS:

CAP : ABS
CASE : Nylon
FIXED CONTACT : PBS+Au
MOVING CONTACT : PBS+Au

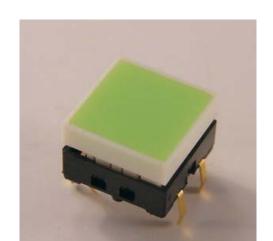


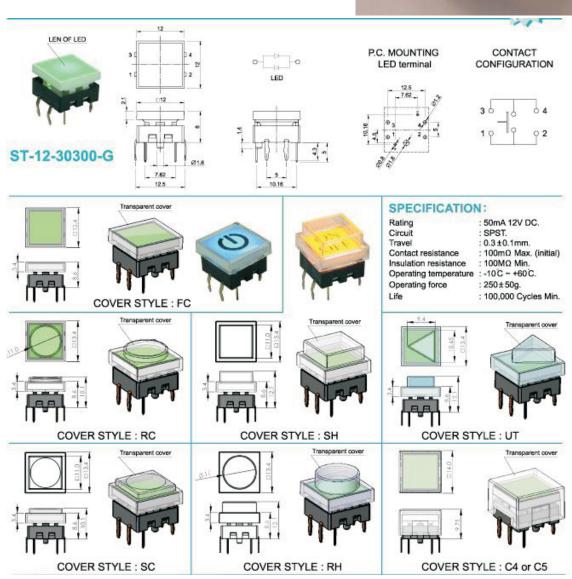




LED Push Button Switches series

KLS7-LED-ST







DIP Switch Series

KLS7-LED-ST

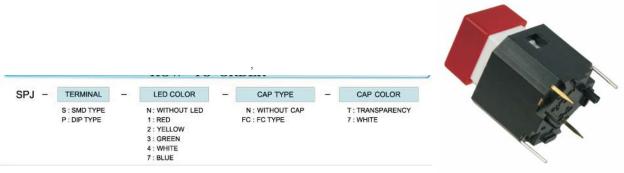


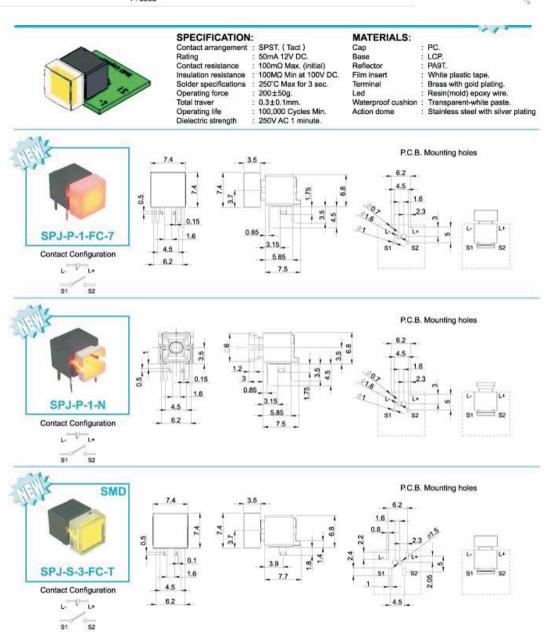




LED Push Button Switches series

KLS7-LED-SPJ







LED Push Button Switches series

KLS7-LED-PB-M16-01

SPECIFICATIONS

Rating: 2A 36V DC Mounting Hole: Ø16 mm

Insulation Resistance: 1,000M Ω Mim Contact Resistance:50M Ω Max. Dielectric Strength: AC 2,000V 1 Minute Operating Temperature: -20°C \sim +55°C Mechanical Life: 1,000,000 cycles Electrical Life: 20,000 cycles

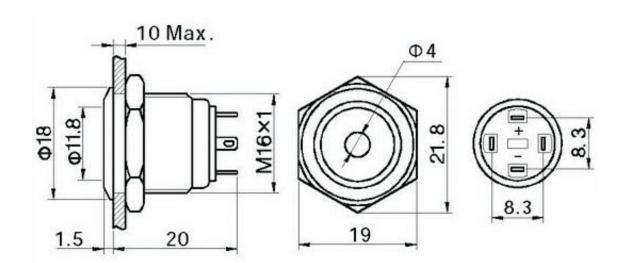
Function: 1No 1Nc Non Lock Type

LED Color : Red, Yellow, Orange (1.7V AC/DC)
Green, Blue, White (2.8V AC/DC)

Approvals : RoHS,IP65











LED Push Button Switches series

KLS7-LED-PB-M16-02

SPECIFICATIONS

Rating: 2A 36V DC Mounting Hole: Ø16 mm

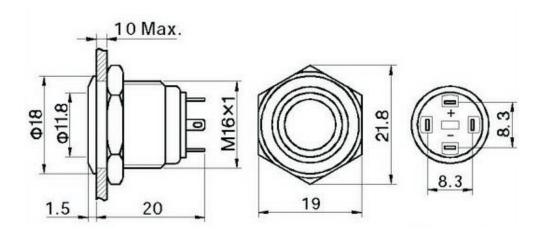
Insulation Resistance: 1,000M Ω Mim Contact Resistance:50M Ω Max. Dielectric Strength: AC 2,000V 1 Minute Operating Temperature: -20°C \sim +55°C Mechanical Life: 1,000,000 cycles Electrical Life: 20,000 cycles

Function: 1No 1Nc

Non Lock Type LED Color : Red,Yellow,Orange (1.7V AC/DC) Green,Blue,White (2.8V AC/DC)

Approvals : RoHS,IP65









LED Push Button Switches series

KLS7-LED-PB-M16-03

SPECIFICATIONS

Rating: 3A 250V DC Mounting Hole: Ø16 mm

Insulation Resistance: 1,000MΩ Mim Contact Resistance:50MΩ Max. Dielectric Strength: AC 2,000V 1 Minute Operating Temperature: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Mechanical Life: 200,000 cycles Electrical Life: 50,000 cycles

Function:

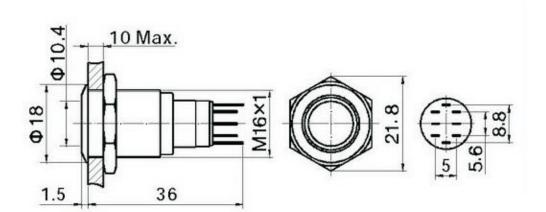
11 = 1No 1Nc , 22 = 2No 2Nc Z = Lock Type, $\Box = Non Lock Type$

LED Color : Red , Green , Yellow , Orange ,Blue , White LED Lamp : 6V,12V,24V,110V,220V AC/DC

IP67 & Ip40

Approvals: RoHS,CE,3C









LED Push Button Switches series

KLS7-LED-PB-M19-01

SPECIFICATIONS

Rating: 5A 250V AC Mounting Hole: Ø19 mm

Insulation Resistance: 1,000MΩ Mim Contact Resistance:50MΩ Max. Dielectric Strength: AC 2,000V 1 Minute

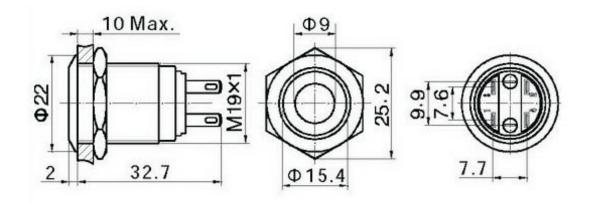
Operating Temperature: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Mechanical Life: 100,000 cycles Electrical Life: 50,000 cycles

Function: 1No 1Nc Non Lock Type

LED Color : Red , Green , Yellow , Orange ,Blue , White LED Lamp : 6V,12V,24V,110V,220V AC/DC

Approvals: RoHS,CE,3C,IP65









DIP Switch Series

KLS7-LED-PB-M19-02

SPECIFICATIONS

Rating: 5A 250V AC Mounting Hole: Ø19 mm

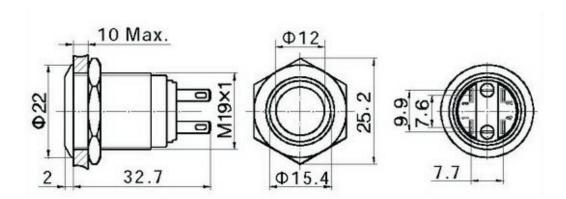
Insulation Resistance: 1,000MΩ Mim Contact Resistance:50MΩ Max. Dielectric Strength: AC 2,000V 1 Minute Operating Temperature: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Mechanical Life: 100,000 cycles Electrical Life: 50,000 cycles

Function: 1No 1Nc Non Lock Type

LED Color : Red , Green , Yellow , Orange ,Blue , White LED Lamp : 6V,12V,24V,110V,220V AC/DC

Approvals: RoHS,CE,3C,IP65







LED Push Button Switches series

KLS7-LED-PB-M19-03

SPECIFICATIONS

Rating: 5A 250V AC Mounting Hole: Ø19 mm

Insulation Resistance: 1,000MΩ Mim Contact Resistance:50MΩ Max. Dielectric Strength: AC 2,000V 1 Minute Operating Temperature: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Mechanical Life: 100,000 cycles Electrical Life: 50,000 cycles

Function:

11 = 1No 1Nc , 22 = 2No 2Nc Z = Lock Type , □ = Non Lock Type

LED Color : Red , Green , Yellow , Orange ,Blue , White LED Lamp : 6V,12V,24V,110V,220V AC/DC

Approvals: RoHS,CE,3C,IP67



