## Switch

## LED Push Button Switches series

## KLS7-LED-TS

## SPECIFICATIONS

Rating:50mA 12VDC
Insulation Resistance: $100 \mathrm{M} \Omega \mathrm{Min}$ (at 500 VDC )
Dielectric Strength:AC 250 V (50/60 Hz for 1minute)
Contact Resistance $100 \mathrm{~m} \Omega$ Max. (Initial)
Electrically Life:100,000 Cycles Min
Ambient Temperature:-20 $\mathrm{C} \sim+70^{\circ} \mathrm{C}$
Operating Force:180 $\pm 50 \mathrm{gf}, 25050 \mathrm{gf}$
Travel: $0.25 \pm 0.1 \mathrm{~mm}$
FEATURES:
Contact Reliability Clip type contacts are applied to ensure high reliability.
For PC Board Terminals are IC pitched (multiple of 2.54 mm ).
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.


All specification $\square$ dimensions are subject to change,please call your nearest KLS sales represesntative for update information

LED Push Button Switches series
KLS7-LED-SPA
SPECIFICATION:




SPA-T-CA-CV05-23


| LED COLOR |  |  |
| :---: | :--- | :--- |
| CODE | UP | DOWN |
| 12 | RED | YELOW |
| 13 | RED | GREEN |
| $1 P 3$ | RED | PURE GREEN |
| 14 | RED | WHITE |
| 17 | RED | BLUE |
| 23 | YELLOW | GREEN |
| $2 P 3$ | YELLOW | PURE GREEN |
| 24 | YELOW | WHITE |
| 27 | YELLOW | BLUE |
| $3 P 3$ | GREEN | PURE GREEN |
| 34 | GREEN | WHITE |
| 37 | GREEN | BLUE |
| P34 | PURE GREEN | WHITE |
| P37 | PURE GREEN | BLUE |
| 47 | WHITE | BLUE |

## DIP Switch Series

## KLS7-LED-SPA



## Switch

LED Push Button Switches series

## KLS7-LED-SPB

## SPECIFICATIONS

Rating:0.1A 30 VDC
Operating Force: 150 g Non Lock
180 g Lock
With LED
Insulation Resistance:100 M ( minDC 500V )
Operating Temperature: $0 \mathrm{C} \sim 55^{\circ} \mathrm{C}$
Mechanical Life: 100,000 cycles
Electrical Life: 10,000 cycles
LED Color FUNCTION:

R=Red
G=Green
$Y=$ Yellow



| ㅁ. | $\square$ | $\square$ |
| :---: | :---: | :---: |
| N. | NO. | $C$. |
|  |  |  |
| $C$. | NO. | NC. |
| ㅁ | $\square$ | $\square$ |



ORDER INFORMATION

## 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
FUNCTION
OPERATING TEMPERATURE

MATERIALS:
SPDT
12 mA .
24 VDC .
5 mR Max.(initial)
100 MQ Min.
$170 \mathrm{gf} \pm 50 \mathrm{gf}$
$2.5 \mathrm{~mm} \pm 0.2 \mathrm{~mm}$
550,000 Cycles Min.
250 C Max.for 3 sec
Momentary

CAP : ABS


FIXED CONTACT : PBS+AL MOVING CONTACT : PBS+Au


LeD Push Button Switches series
KLS7-LED-ST


## DIP Switch Series

KLS7－LED－ST
HOW TO ORDER

MODEL NO．－GAP COLOR + LED COLOR +\begin{tabular}{l}
TRANSPARENT <br>
COVER STYLE

$+\square$ MARKING TYPE -

MARKING <br>
POSITION
\end{tabular}

| ST－12 | 1：Red | $00:$ Without LED |
| :--- | :--- | :--- |
|  | $2:$ Yellow | $01:$ Red |
|  | $3:$ Green | S2 $:$ Super Yellow |
|  | 4：White | $03:$ Green |
|  | $5:$ Transparent | S3：Super Green |
|  | 6：Orange |  |
|  | $7:$ Blue |  |
|  |  |  |

iM Transparent Mylar

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

（A）B C D E F G H I J
K L M N O Q R S T
（U） V W X Z B 畨 O
－回回回回回回回

00 ：Without Cover
FC ：Flat／clear
RC ：Round $\mathrm{h}=4.9 \mathrm{~mm} /$ clear RH ：Round $h=6.9 \mathrm{~mm} /$ clear SC ：Square $h=4.9 \mathrm{~mm} /$ clear SH ：Square $\mathrm{h}=6.9 \mathrm{~mm} /$ clear UT ：UP Triangle／clear DT ：Down Triangle／clear RT ：Right Triangle／clear LT ：Left Triangle／clear C5 ：Flat cover／clear C4 ：Flat cover／white（Solid）

PO ：Laser－Engravingon Transparent Cover

PI ：Laser－Engraving on Cap


Print on Transparent Mylar

遂put in and assembled by customer

CONTACT CONFIGURATION
SWITCH WTH VAT COVER

HOW TO ORDER


LED Push Button Switches series

## KLS7-LED-SPJ



## Switch

LED Push Button Switches series

## KLS7-LED-PB-M16-01

## SPECIFICATIONS

Rating: 2A 36V DC
Mounting Hole: Ø16 mm
Insulation Resistance: 1,000M Mim
Contact Resistance:50M $\Omega$ Max.
Dielectric Strength: AC 2,000V 1 Minute
Operating Temperature: $-20^{\circ} \mathrm{C} \sim+55^{\circ} \mathrm{C}$
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


## ORDER INFORMATION

## Switch

LED Push Button Switches series

## KLS7-LED-PB-M16-02

## SPECIFICATIONS

Rating: 2A 36V DC
Mounting Hole: Ø16 mm
Insulation Resistance: 1,000M Mim
Contact Resistance:50M $\Omega$ Max.
Dielectric Strength: AC 2,000V 1 Minute
Operating Temperature: $-20^{\circ} \mathrm{C} \sim+55^{\circ} \mathrm{C}$
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


ORDER INFORMATION

LED Push Button Switches series

## KLS7-LED-PB-M16-03

## SPECIFICATIONS

Rating: 3A 250V DC
Mounting Hole: Ø16 mm
Insulation Resistance: 1,000M Mim
Contact Resistance:50M $\Omega$ Max.
Dielectric Strength: AC 2,000V 1 Minute
Operating Temperature: $-20^{\circ} \mathrm{C} \sim+55^{\circ} \mathrm{C}$
Mechanical Life: 200,000 cycles
Electrical Life: 50,000 cycles
Function:
$11=1 \mathrm{No} 1 \mathrm{Nc}, 22=2 \mathrm{No} 2 \mathrm{Nc}$
Z = Lock Type , $\quad=$ Non Lock Type
LED Color : Red, Green, Yellow, Orange ,Blue, White
LED Lamp: 6V, 12V, 24V, 110V,220V AC/DC
IP67 \& Ip40



ORDER INFORMATION

## Switch

LED Push Button Switches series

## KLS7-LED-PB-M19-01

## SPECIFICATIONS

Rating: 5A 250V AC
Mounting Hole: Ø19 mm
Insulation Resistance: 1,000M Mim
Contact Resistance:50M $\Omega$ Max.
Dielectric Strength: AC 2,000V 1 Minute
Operating Temperature: $-20^{\circ} \mathrm{C} \sim+55^{\circ} \mathrm{C}$
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


## ORDER INFORMATION

## DIP Switch Series

## KLS7-LED-PB-M19-02

## SPECIFICATIONS

Rating: 5A 250V AC
Mounting Hole: Ø19 mm
Insulation Resistance: 1,000M Mim
Contact Resistance:50M $\Omega$ Max.
Dielectric Strength: AC 2,000V 1 Minute
Operating Temperature: $-20^{\circ} \mathrm{C} \sim+55^{\circ} \mathrm{C}$
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


ORDER INFORMATION

LeD Push Button Switches series

## KLS7-LED-PB-M19-03

## SPECIFICATIONS

Rating: 5A 250V AC
Mounting Hole: Ø19 mm
Insulation Resistance: 1,000M Mim
Contact Resistance:50M $\Omega$ Max.
Dielectric Strength: AC 2,000V 1 Minute
Operating Temperature: $-20^{\circ} \mathrm{C} \sim+55^{\circ} \mathrm{C}$
Mechanical Life: 100,000 cycles
Electrical Life: 50,000 cycles
Function:
$11=1 \mathrm{No} 1 \mathrm{Nc}, 22=2 \mathrm{No} 2 \mathrm{Nc}$
Z = Lock Type , $\quad=$ 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



ORDER INFORMATION

