

# ILS Series Integrated LED Tact Switch

NEW

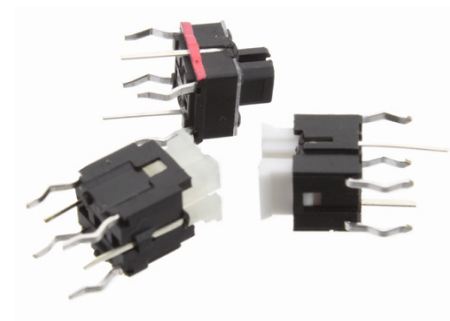
**KSD**  
SWITCH CONNECTOR

## Features/Benefits

- Compact Size
- THT versions
- Different height
- Several LED colors
- High life cycles

## Typical Applications

- Consumer electronics
- Health monitoring device
- Test & measurement
- Audio/Video control board



## Specification

TRAVEL: 0.25 mm ± 0.1 mm

## Mechanical

OPERATING LIFE: 100,000 cycles

## Electrical

RATING: 100mA max. @ 30VDC  
10µA min. @ 1VDC  
INSULATION RESISTANCE: 100M Ω min.  
DIELECTRIC WITHSTANDING VOLTAGE:  
250VAC (50-60 Hz 2mA) for 1 min  
BOUNCE TIME: ON/OFF 5ms max.  
INITIAL CONTACT RESISTANCE: 100m Ω max.

## Environmental

OPERATING TEMPERATURE: -40°C to +85°C  
STORAGE TEMPERATURE: -40°C to +85°C

## Packaging

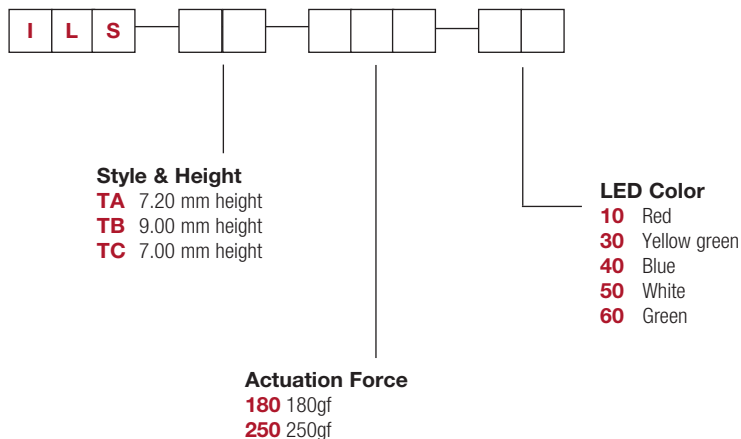
Bulk packing in bag of 500 pieces  
2 bags per carton box

\* All caps are not recommended to soldering process

## 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.

For any part number different from those listed above, please consult your local representative.



Dimensions are shown: mm  
Specifications and dimensions subject to change

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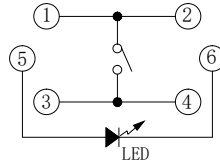
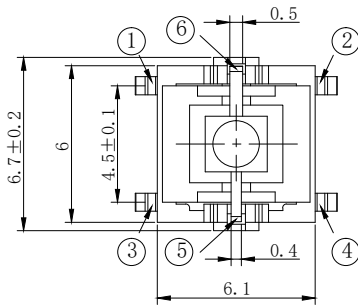
### LED CHARACTERISTICS

#### STANDARD LED COLOR OPTIONS

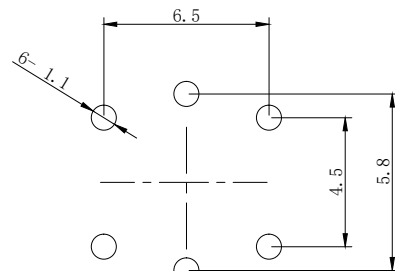
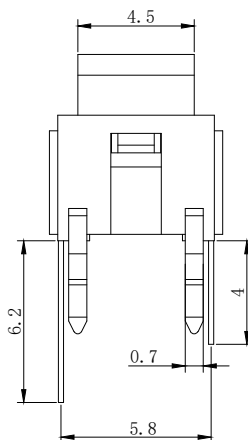
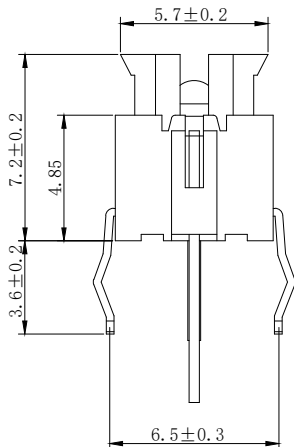
LED Parameter	Symbol	Condition	UNITS	RED 10	YELLOW/GREEN 30	BLUE 40	WHITE 50	GREEN 60
Power Dissipation	Pd	-	mW	52	60	120	18	120
Forward Current	IF	-	mA	20	20	30	5	30
Peak Forward Current *1	IFP	-	mA	100	100	100	100	100
Reverse Voltage	VR	-	V	5	5	5	5	5
Operating Temperature	Topr	-	-	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Storage Temperature	Tstg	-	-	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C	-40°C to 85°C
Forward Voltage	Vf	F=5mA	V	2.6 max.	2.3 max.	3.2 max.	3.6 max.	3.4 max.
Luminous Intensity	Iv	F=5mA	mcd	140 min.	100 min.	63 min.	94 min.	1000 min.
Reverse Current	IR	F=5mA	μA	100 max.	-	-	1 max.	-
Peak Wave Length	λp	F=5mA	nm	644	570	460	-	521.5
Dominant Wave Length	λd	F=5mA	nm	620 min.	567-573	465-470	-	515-525
Spectral Line Half-width	Δλ	F=5mA	nm	20	30	30	-	30
Viewing Angle	2θ1/2	F=5mA	deg	35	35	35	35	35

### STYLES

**TA**



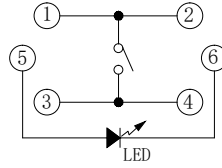
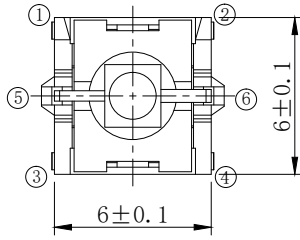
CIRCUIT DIAGRAM



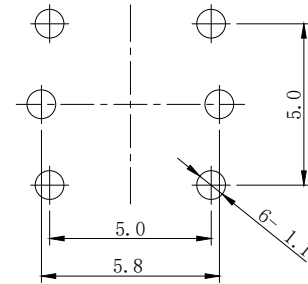
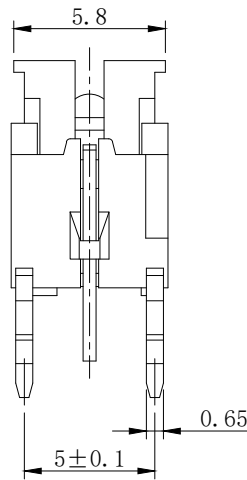
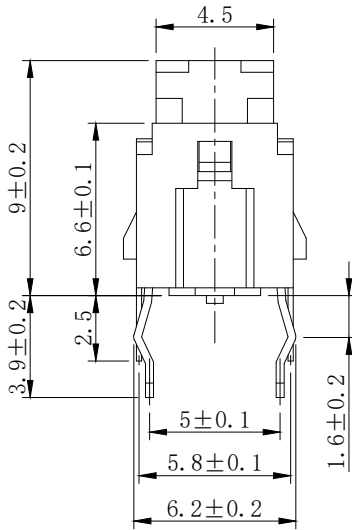
P.C.B LAND DIMENSION

**STYLES**

**TB**

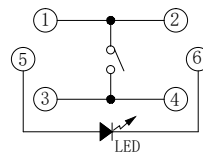
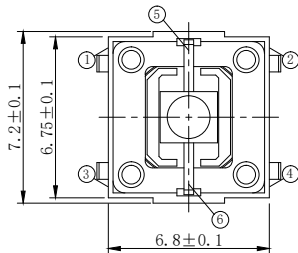


**CIRCUIT DIAGRAM**

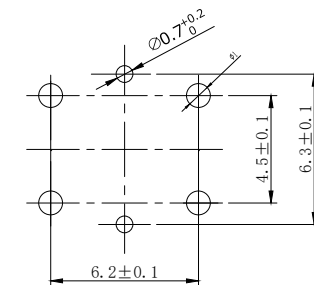
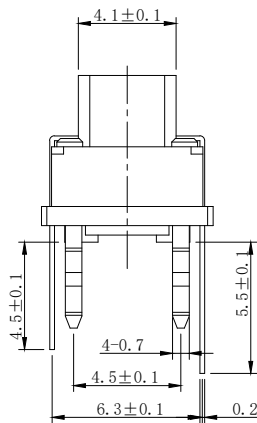
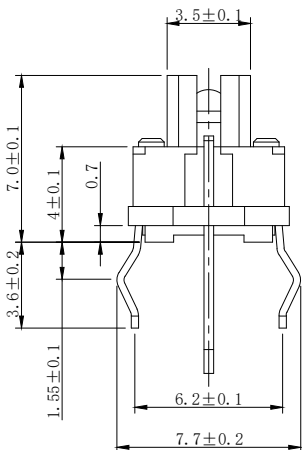


**P.C.B LAND DIMENSION**

**TC**



**CIRCUIT DIAGRAM**



**P.C.B LAND DIMENSION**

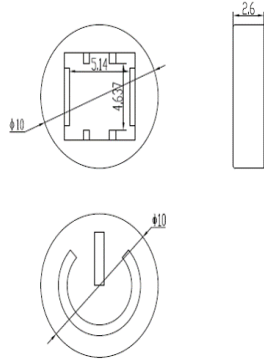
### CAPS

Tactile Switches

B

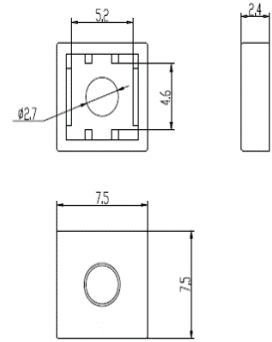
#### ILSCAPR0690-10

Round cap, grey with power logo



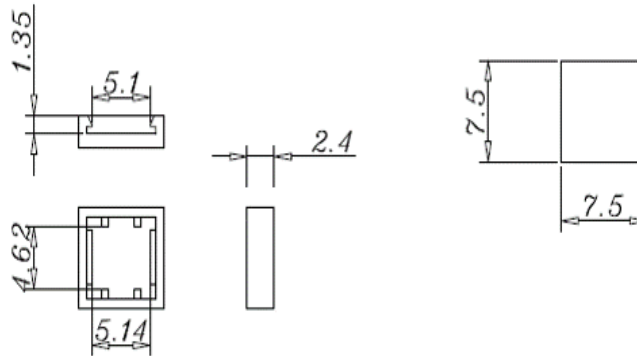
#### ILSCAPS757501

Square cap with hole



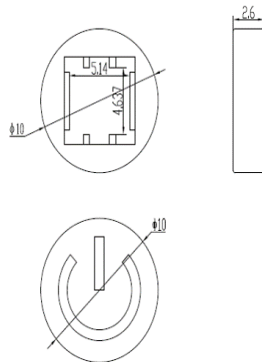
#### ILSCAPS757502 (Nature) ILSCAPS757503 (Grey)

Square cap without hole



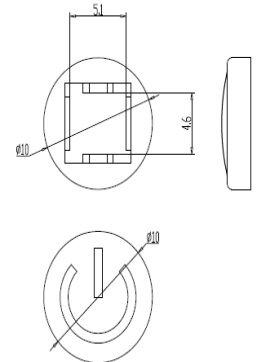
#### ILSCAPR0690-10B

Round cap, black with power logo



#### ILSCAPR0690

Round cap, grey with power logo



#### ILSCAPR0691

Round cap, without power logo

