



Illuminated Tactile Switches Series ZLS67 / ZLS70



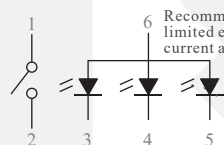
General Specifications

Switch circuit :SPST
 Switch contact rating :50mA @ 12V DC max
 ZLS67 LED rating :Limited forward current(IF) at 20mA max
 ZLS70 LED control protocol :1-wire protocol control, 5V DC
 Contact Resistance :100mOhm Max.(initial)
 Insulation Resistance :100MOhm Min.
 Operating Force :160gf± 50gf
 Total Travel :0.2mm± 0.1mm
 Mechanical Life :500,000 cycles Min.
 Operating Temperature :-25°C ~ +70°C
 LED Color :Red / Green / Blue

Materials

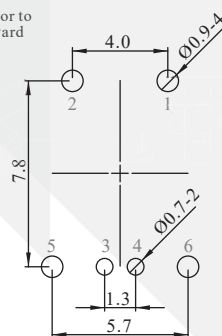
Reflector :Polyamide(PA)
 Base :Polyamide(PA)
 SW Terminal :Brass silver plated over nickel under plating
 LED Terminal :Phosphor bronze silver plated over nickel under plating
 Adapter :Polyamide(PA)

▼ Circuit Diagram & PCB layout

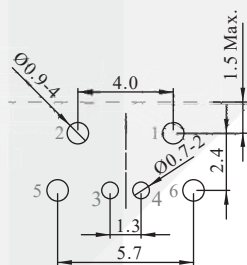


Pin	Function
1	SW COM.
2	SW N.O.
3	Green LED (-)
4	Red LED (-)
5	Blue LED (-)
6	LED (+)

Contact Configuration for ZLS67



P.C.B. Layout for ZLS□□VH (Vertical switch)



P.C.B. Layout for ZLS□□AK (Right angle switch)

▼ How to Order for 6 Smart Cap & 9 Smart Cap



P/N:ZLS67VH-PBQ-R
(Package:700pcs/Reel)



Adapter P/N: YCB010

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6 Smart cap P/N:

+ **SMART CAP** =
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or



P/N:ZLS67AK-PBQ-A
(Package:150pcs/Tray)



Adapter P/N: YCB012

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9 Smart cap P/N:

▼ How to Order for Standard Cap



P/N:ZLS67VH-PBR-A-R2TA0
Ice cap,without Marking
(Package:105pcs/Tray)



P/N:ZLS67VH-PBR-A-R2KA9
Black cap,with Ring Marking
(Package:105pcs/Tray)



P/N:ZLS67VH-PBR-A-R2SA1
Silver cap,with Power Marking
(Package:105pcs/Tray)



P/N:ZLS67AK-PBR-A-R2TA0
Ice cap,without Marking
(Package:150pcs/Tray)



P/N:ZLS67AK-PBR-A-R2KA9
Black cap,with Ring Marking
(Package:150pcs/Tray)

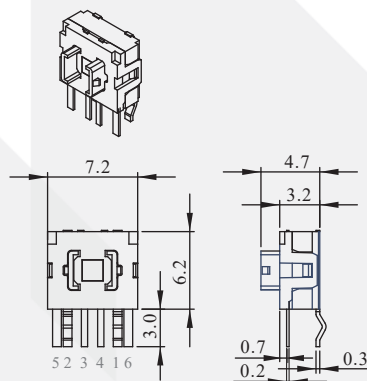


P/N:ZLS67AK-PBR-A-R2SA1
Silver cap,with Power Marking
(Package:150pcs/Tray)

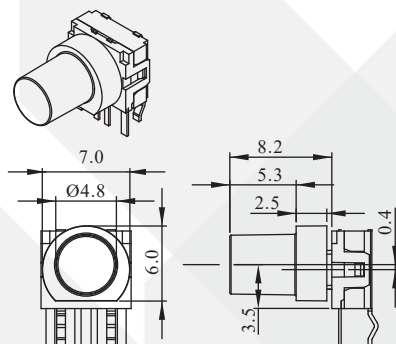
Illuminated Tactile Switches Series **ZLS67 / ZLS70**

Dimension of ZLS $\square \square$ AK (Right angle switch)-

/ ZLS67AK-PBQ-A

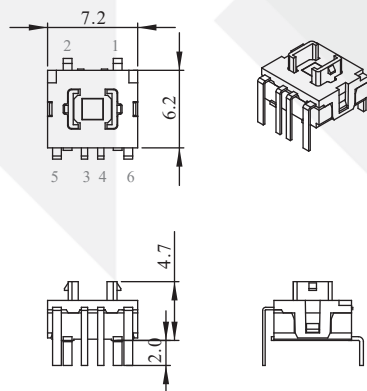


/ ZLS67AK-PBR-A-R2□□□

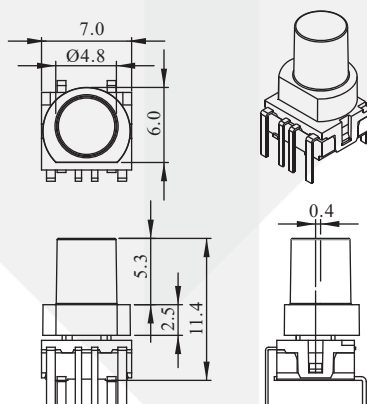


Dimension of ZLS $\square \square$ VH (Vertical switch)

/ZLS67VH-PBQ-R



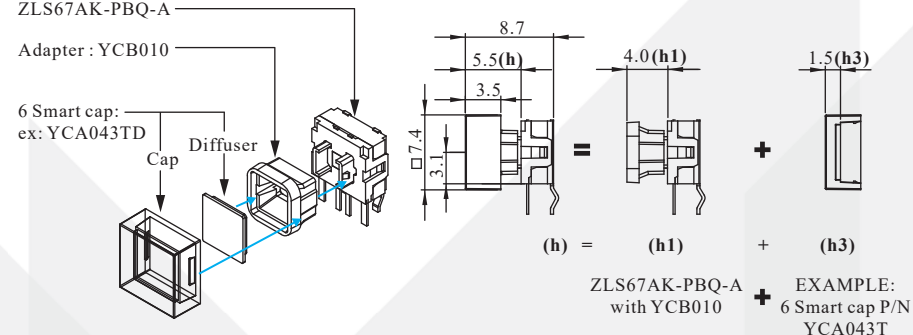
/ ZLS67VH-PBR-A-R2□□□



- Dimension of ZLS $\square \square$ AK with 6 SMART cap

Switch:
ZLS67AK-PBQ-A
Adapter : YCB010

6 Smart cap: -
ex: YCA043T

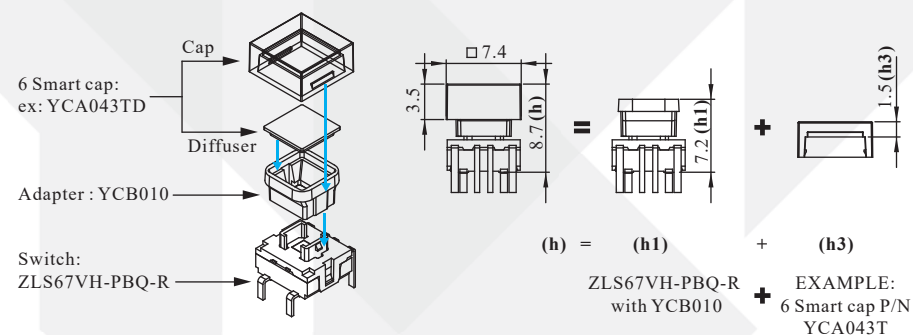


- Dimension of ZLS $\square \square$ VH with 6 SMART cap

6 Smart cap:
ex: YCA043T

Adapter : YCB010

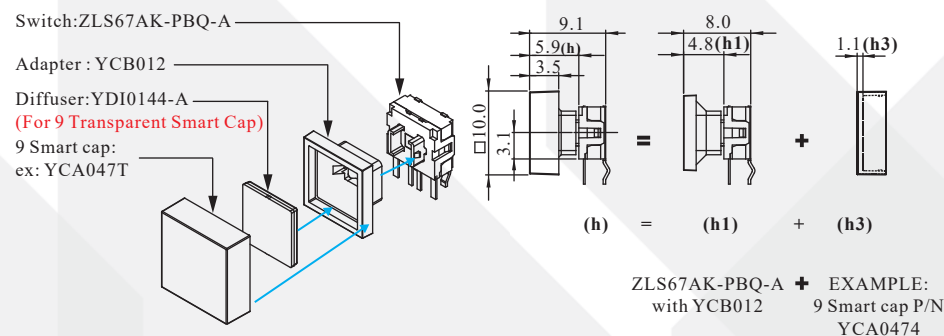
Switch:
ZLS67VH-PBO-R



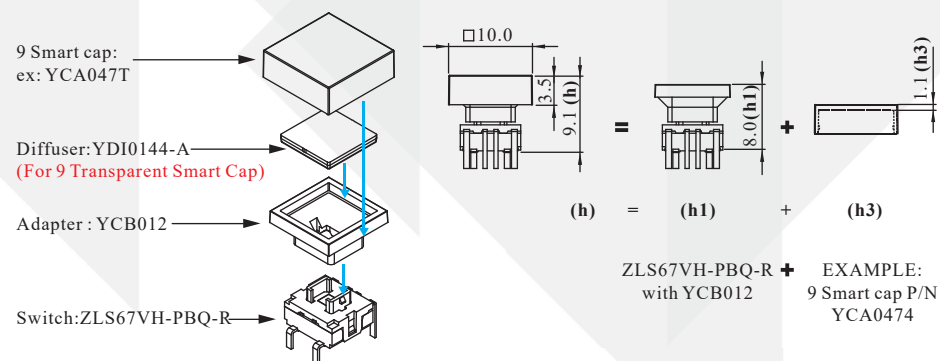


Illuminated Tactile Switches Series ZLS67 / ZLS70

Dimension of ZLS□□AK with 9 SMART cap



Dimension of ZLS□□VH with 9 SMART cap

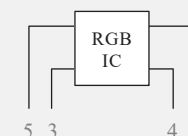
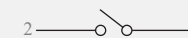


ZLS70



Pin	Function	Description
1	SW COM.	Switch Common
2	SW N.O.	Switch Normally Open
3	DOUT	DATA OUT
4	GND	GROUND
5	VDD	POWER VOLTAGE, 5V
6	DIN	DATA IN

Contact Configuration



ZLS70 RGB+IC
Control protocol:
1-wire protocol control, 5V DC

Feature

- ZLS70 uses WS2812B 5V RGB led with programmable.
- RGB Led Can be connected in series to reduce wiring.

How to order ZLS70

EX:

RGB → P/N: ZLS67VH-PBQ-R

RGB with IC → P/N: ZLS70VH-ZBQ-R

Note

- ⚠ Pin3,6 suggest avoiding high frequency signal to avoid interference.
- ⚠ Wrong polarity may cause damage to the function.