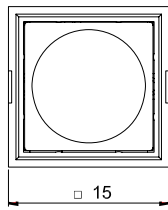


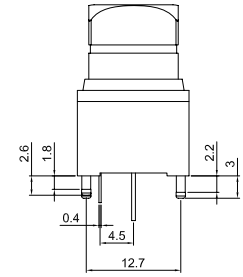
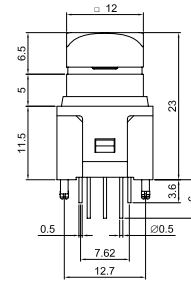
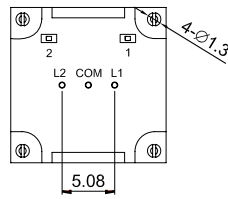
Pushbutton Switches

Silent Pushbutton Switch with LED

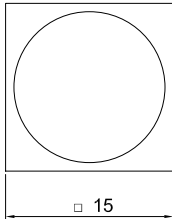
PB59 Series



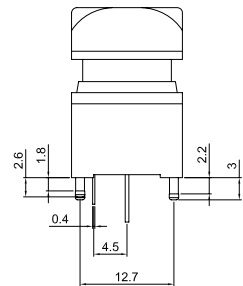
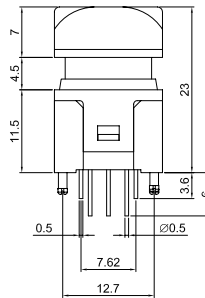
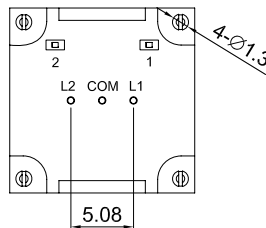
"BOTTOM VIEW"



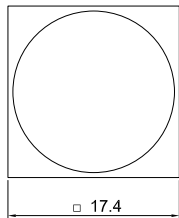
PB59MTAA... A Type Actuator with A Type Cap



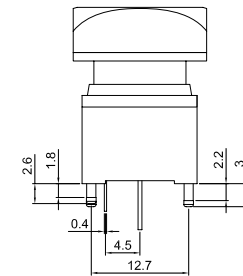
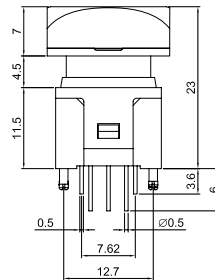
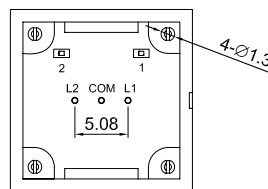
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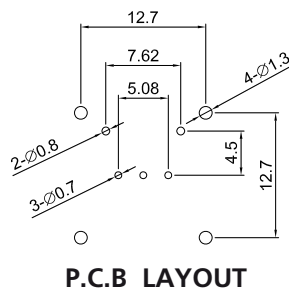
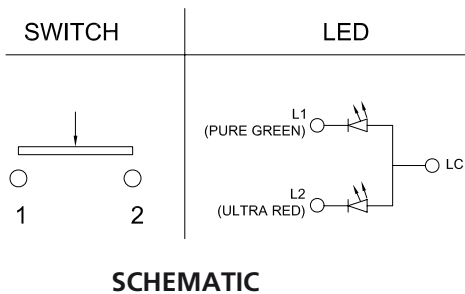
PB59MTBB... B Type Actuator with B Type Cap



"BOTTOM VIEW"



PB59MTBC... B Type Actuator with C Type Cap



LED SPECIFICATIONS					
ATTENTION LEDs are Electrostatic Sensitive devices	Unit	Value / LED Color			
		Ultra Green	Pure Green	Ultra Red	
FORWARD CURRENT	I_f	mA	30	20	20
REVERSE VOLTAGE	V_r	V	5.0	5.0	5.0
REVERSE CURRENT	I_r	μ A	10	10	10
FORWARD VOLTAGE@20mA	V_f	V	1.7-2.5	3.1-3.8	1.7-2.6
LUMINOUS INTENSITY@20mA	I_v	mcd	20	100	60

How to order:

PB59

1 OPERATION:

M Momentary

2 ACTUATION:

T Tactile Actuation
N Non-Tactile Actuation

3 ACTUATOR & CAP:

A A Type Actuator (only for Cap A)
B B Type Actuator (only for Cap B & C)

4 CAP TYPE:

A 12mm Square Cap
B 15mm Square Cap
C 17.4mm Square Cap

5 COLOR LED 1 (L1 CHIP):

N Without LED
G Ultra Blue
F Ultra Green
C Ultra Red
B Ultra White
E Ultra Yellow
PF Pure Green

6 COLOR LED 2 (L2 CHIP):

N Without LED
G Ultra Blue
F Ultra Green
C Ultra Red
B Ultra White
E Ultra Yellow
PF Pure Green

7 DIFFUSER PLATE COLOR:

B White (Std.)
C Red
F Green
G Blue
E Yellow
BB White (when indicate the cap color)

8 CAP COLOR:

J Transparent (Std.)
C Red
F Green
G Blue
E Yellow
JJ Transparent (when indicate the diffuser color)

All specifications are restricted to QA test criteria. DRW: D.L. JIN, CHK: D.F. LEE, APP: H.Z. QIU

SPECIFICATIONS

1. POLE - POSITION : DPST 、 SPST
2. MOMENTARY TYPE : OFF - <ON>
3. OPERATING TEMPERATURE RANGE : -20°C ~ 70°C
4. RATING : 100 mA 12V DC
5. ELECTRICAL PERFORMANCE :

	ITEM	TEST CONDITIONS	CRITERIA
5-1	CONTACT RESISTANCE	DC 1.5V 100 mA , BY METHOD OF VOLTAGE DROP	200 mΩ MAX.
5-2	INSULATION RESISTANCE	DC 500V	100 MΩ MIN.
5-3	DIELECTRIC STRENGTH	AC 500V(50-60HZ) FOR 1 MINUTE	BREAKDOWN IS NOT ALLOWABLE

6. MECHANICAL PERFORMANCE :

	ITEM	TEST CONDITIONS	CRITERIA
6-1	OPERATING FORCE	ALONG THE DIRECTION TO APPLY A STATIC LOAD AT END OF ACTUATOR	250 ± 100gf
6.2	TRAVEL	ALONG OPERATIONAL DIRECTION , TO APPLY A STATIC LOAD ON TOP OF THE STEM DEPRESSIN STEM GRADUALLY UNTIL IT STOPS MOVEMENT	4.5 ± 0.2mm
6-3	SOLDERABILITY	260±5°C IN 3 SECONDS	SOLDER COVERAGE 75% MIN.

7. SOLDERING HEAT RESISTANCE :
 - 7.1. MANUAL: 300±5°C IN 3 SECONDS
 - 7.2. WAVE SOLDERING: 260±5°C IN 3 SECONDS

8. DURABILITY :

8.1. OPERATING LIFE WITHOUT LOAD : 1,000,000 MIN.

8.2. OPERATING LIFE WITH LOAD : 200,000 MIN.

8.3. SPECIFICATIONS :

8.3.1. CONTACT RESISTANCE : 300 mΩ MAX.

8.3.2. OPERATING FORCE : WITHIN THE RANGE ±30% OF SPECIFICATION

8.3.3. INSULATION RESISTANCE : 500V DC 10 MΩ MIN.

8.3.4. DIELECTRIC STRENGTH : 500V AC FOR 1 MINUTE, BREAKDOWN IS NOT ALLOWABLE

9. ENVIRONMENTAL PERFORMANCE :

	ITEM	TEST CONDITIONS	CRITERIA
9-1	COLD	-20±2°C FOR 96 HOURS	<ol style="list-style-type: none"> IT SHOULD MEET THE REQUIREMENTS OF ITEM 5 STATED MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL
9-2	DRY HEAT	70±2°C FOR 96 HOURS	<ol style="list-style-type: none"> THE CONTACT RESISTANCE SHOULD BE LESS THAN 300 mΩ IT SHOULD MEET THE REQUIREMENTS OF 5-2 AND 5-3 MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL
9-3	DAMP HEAT	40±2°C , RH 90%~95% FOR 96 HOURS	<ol style="list-style-type: none"> THE CONTACT RESISTANCE SHOULD BE LESS THAN 300 mΩ THE INSULATION RESISTANCE SHOULD BE HIGHER THAN 10 MΩ DIELECTRIC STRENGTH SHOULD MEET 5-3 STATED MECHANICAL PERFORMANCE SHOULD REMAIN TO NORMAL

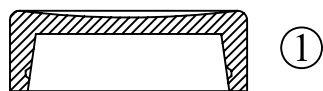
10. LED SPECIFICATIONS :

LED SPECIFICATIONS WILL BE FURNISHED DEPENDING ON DIFFERENT LED COLOR DEMAND

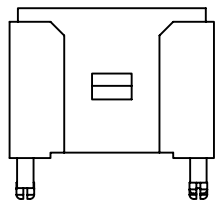
Pushbutton Switches

Silent Pushbutton Switch with LED

PB59 Series



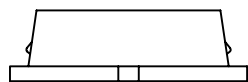
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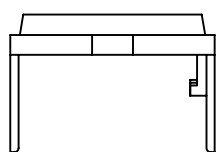
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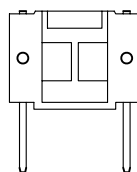
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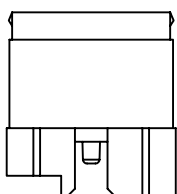
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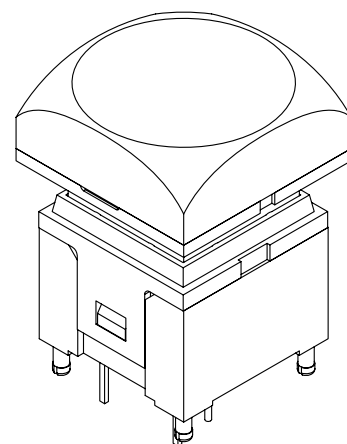


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DIMENSION	TOLERANCE
BELOW 10 mm	± 0.3
10~100 mm	± 0.5
ABOVE 100 mm	± 0.8
ANGLE	± 3°



NO.	PART NAME	QUALITY	MATERIAL	SPECIAL DEAL
1	KNOB	1	PC	TRANSPARENT
2	FLUORESCENT PLATE	1	PC+FLUORESCENT POWER	WHITE
3	COVER	1	PA66	WHITE
4	ACTUATOR	1	PA66	WHITE
5	BASE FRAME	1	PA66+GF33%	BLACK
6	TERMIANL BOARD	1	PA66+GF33%	BLACK
	TERMIANL	1	BRASS	SILVER PLATING 0.5μm MIN
7	TWEAK SPRING	1	SUS304	
8	SLIDE PIN	4	SUS304	
9	MOVING CONTACT	1	PHOSPHOR BRONZE	GOLD FLASH
10	SPRING	2	SUS304	
11	LED	1		RED/GREEN