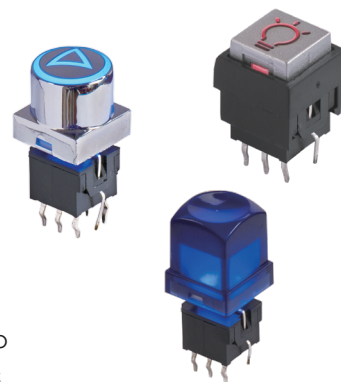


» Features

- Clip type contacts are applied to ensure high reliability.
- Terminals are all 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 available.
- Various symbols can be engraved on the cap
- Any customization for cap & symbol is welcomed.



» Applications

- Operating switches in all types of electronic equipment such as audio apparatus, office equipment, communications apparatus, TV sets, VCRs, etc.

» Specifications

Rating	0.1A 30VDC
Insulation Resistance	100MΩ Min (at 500 VDC)
Dielectric Strength	AC 500V (50/60 Hz for 1 minute)
Contact Resistance	50mΩ Max. (Initial)
Electrically Life	10,000 Cycles Min
Ambient Temperature	-10°C~ +80°C
Operating Force	150 ± 100gf (Momentary)
	250 ± 100gf (Alternate)
	200 ± 100gf (Momentary With Click)

» LED Specifications

Color	VR	IF	Recommended Operating Current	VF	
				Nom	Max
Red	DC 5V	20mA	20mA	1.7V	2.4V
Green	DC 5V	20mA	20mA	1.9V	2.4V
Yellow	DC 5V	20mA	20mA	1.9V	2.4V
Blue	DC 5V	20mA	20mA	3.0V	3.6V
White	DC 5V	20mA	20mA	3.0V	3.6V

For the specification about the other LEDs, please contact with sales department

» Product selection

PB 613

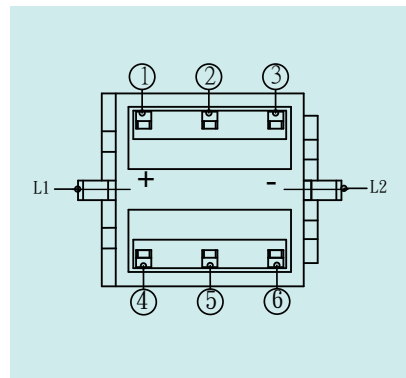
BUTTON TYPE		FUNCTION		LED		LED BRIGHTNESS		LASER ETCHING	
1F		A	Alternate	-	Non-LED	-	Standard	01	
2F		B	Momentary	L	LED	C	High Brightness	02	
3F		C	Momentary with click					03	OK
4F								04	
5F								05	
6F								06	
01								07	
02								08	
03								09	
04								10	
05									
07									

FRAME		LED COLOR		CAP COLOR	
-	Without	1	Red	1	Misty Silver
F	With frame	2	Yellow	2	Bright Silver
		3	Green	3	Gold
		4	Blue	4	White
		5	White	5	Bight Black
		6	Pure Green	6	Red
		8	Amber	7	Misty Black
		9	Blue Green	8	Sky blue
		10	Pink	9	Gunme black
		011	Purple	A	Orange
		12	Red/Yellow		
		13	Red/Green		
		14	Red/Blue		
		23	Yellow/Green		
		48	Blue/Amber		
		52	White/Yellow		
		58	White/Amber		
		-	Non-LED		

Please inquire about the deals with our sales representative.

» Circuit

Type	Switch Action		
PB613A	Normal ON	Push to lock ON	
Connecting Terminal	1 - 2 4 - 5	2 - 3 5 - 6	
PB613B	Normal ON	Push (ON)	
Connecting Terminal	1 - 2 4 - 5	2 - 3 5 - 6	
LED Circuit			



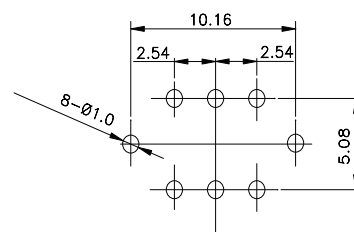
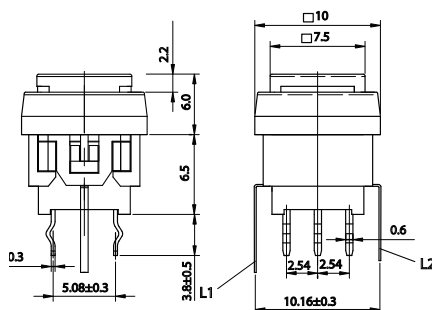
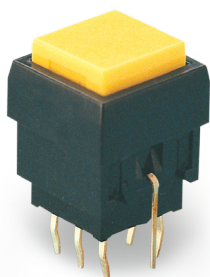
» Operating characteristics

Unit: mm

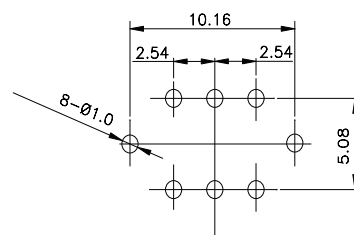
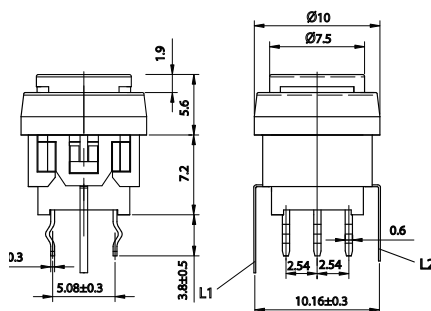
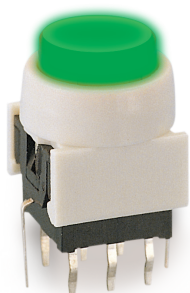
Dimensions

P.C.B Layout

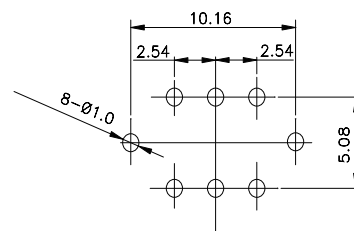
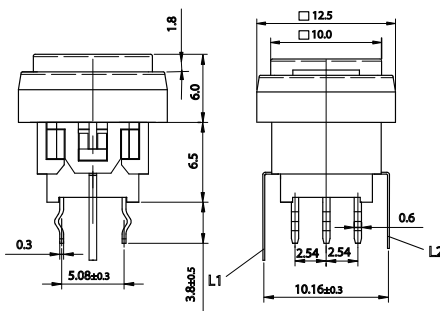
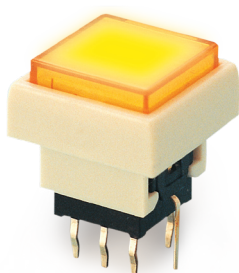
PB6131F ☐ L



PB6132F ☐ L



PB6133F ☐ L

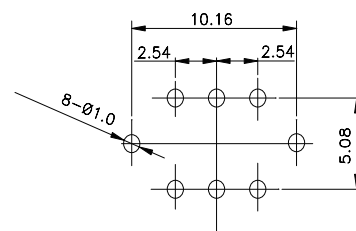
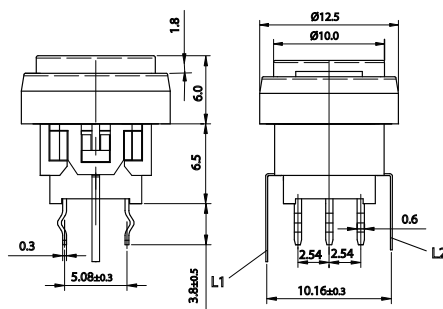
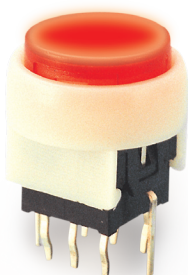
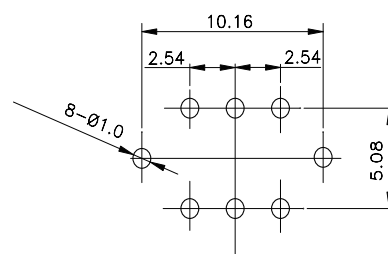
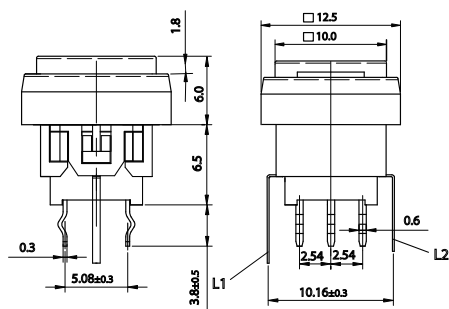
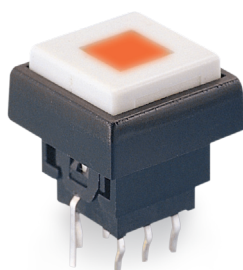
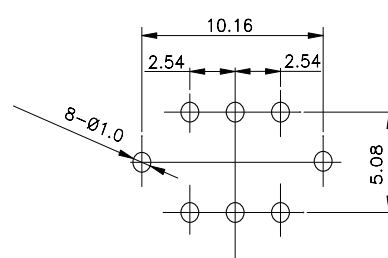
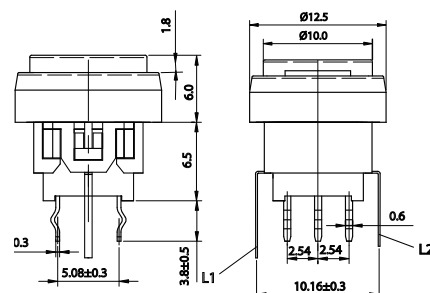
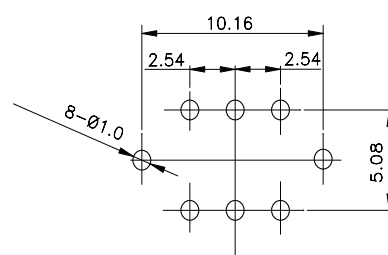
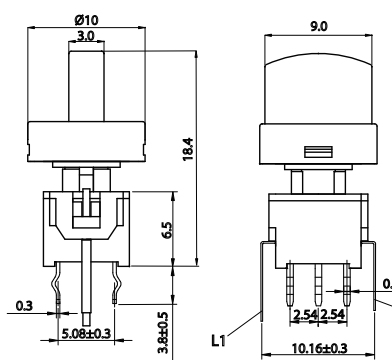


» Operating characteristics

Unit: mm

Dimensions

P.C.B Layout

PB6134F ☐ LPB6135F ☐ LPB6136F ☐ LPB61301 ☐ L

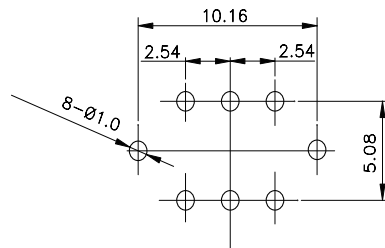
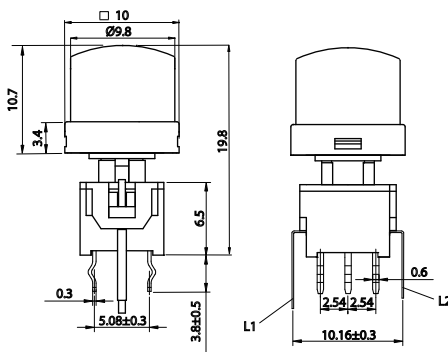
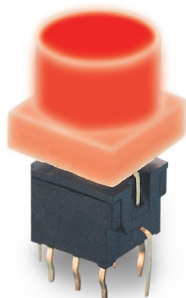
» Operating characteristics

Unit: mm

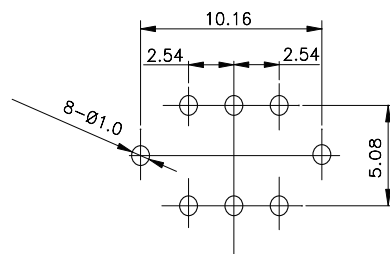
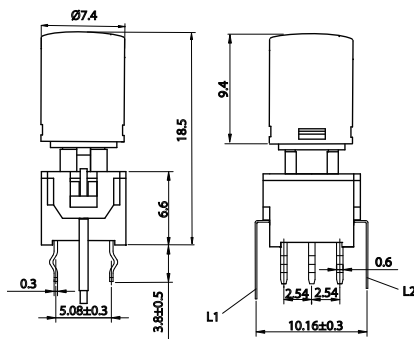
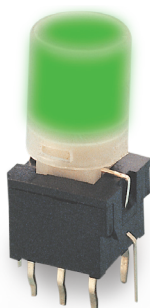
Dimensions

P.C.B Layout

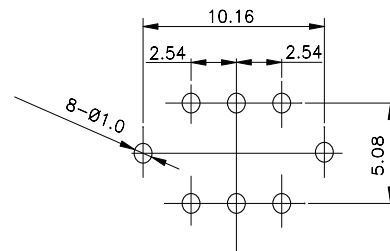
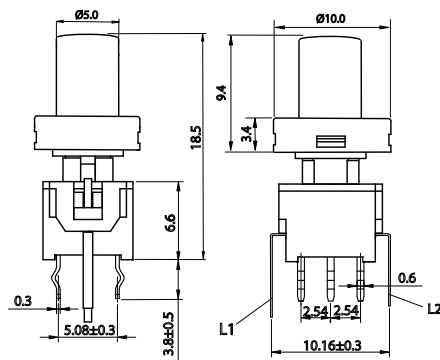
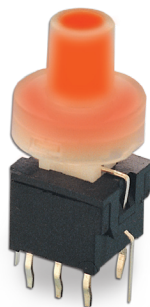
PB61302 ☐ L



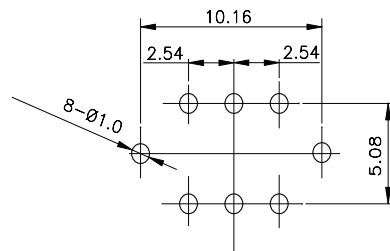
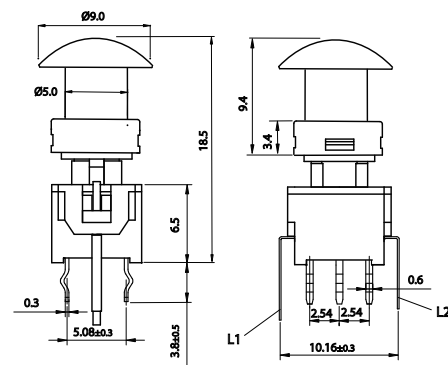
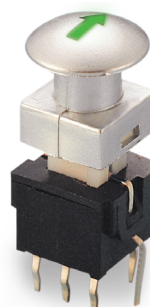
PB61303 ☐ L



PB61304 ☐ L



PB61305 ☐ L

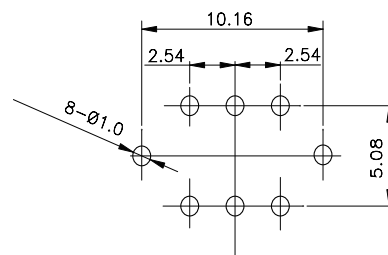
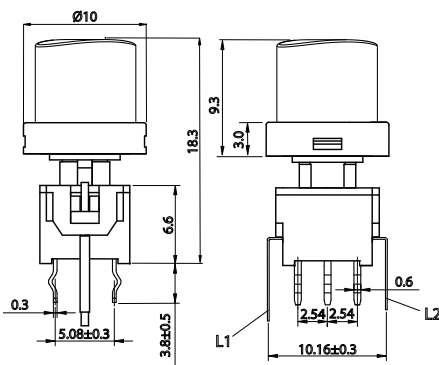
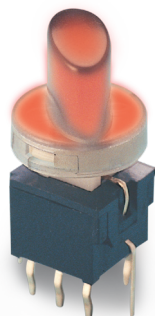


» Operating characteristics

Unit: mm

Dimensions

P.C.B Layout

PB61307 ☐ L

» Features

- Precise design terminal type adequate for DIP IC pitch size (multiple of 2.54mm).
- Epoxy sealing treatment, free of flux entry.
- Several LED colors options.



» Applications

- Operating switches in all types of electronic equipment such as audio apparatus, office equipment, communications apparatus, TV sets, VCRs, etc.

» Specifications

Rating	0.1A 30VDC
Insulation Resistance	100MΩ Min (at 500 VDC)
Dielectric Strength	AC 500V (50/60 Hz for 1 minute)
Contact Resistance	50mΩ Max. (Initial)
Electrically Life	10,000 Cycles Min
Ambient Temperature	-10°C~ +80°C
Operating Force	150 ± 100gf (Momentary)
	250 ± 100gf (Alternate)
	200 ± 100gf (Momentary With Click)

» LED Specifications

Color	VR	IF	Recommended Operating Current	VF	
				Nor	Max
Red	DC 5V	20mA	20mA	1.7V	2.4V
Green	DC 5V	20mA	20mA	1.9V	2.4V
Yellow	DC 5V	20mA	20mA	1.9V	2.4V
Blue	DC 5V	20mA	20mA	3.0V	3.6V
White	DC 5V	20mA	20mA	3.0V	3.6V

For the specification about the other LEDs, please contact with sales department

» Product selection

TP 613



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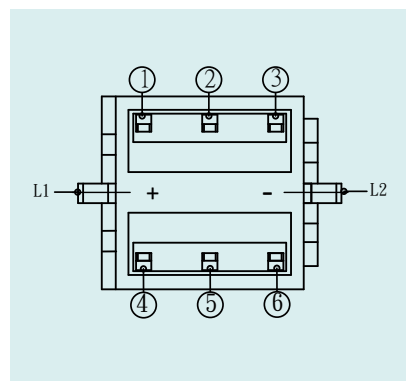
FUNCTION	
A	Non- LED Alternate
B	Non - LED Momentary
C	Non - LED Momentary with click
AL	LED Alternate
BL	LED Momentary
CL	LED Momentary with click

LED COLOR		
1		Red
2		Yellow
3		Green
4		Blue
5		White
6		Pure Green
8		Amber
9		Blue Green
10		Pink
011		Purple
12		Red/Yellow
13		Red/Green
14		Red/Blue
23		Yellow/Green
48		Blue/Amber
52		White/Yellow
58		White/Amber
-		Non- LED

LED BRIGHTNESS	
-	Standard
C	High Brightness

» Circuit

Type	Switch Action	
TP613A	Normal ON	Push to lock ON
Connecting Terminal	1 - 2 4 - 5	2 - 3 5 - 6
TP613B	Normal ON	Push (ON)
Connecting Terminal	1 - 2 4 - 5	2 - 3 5 - 6
LED Circuit		



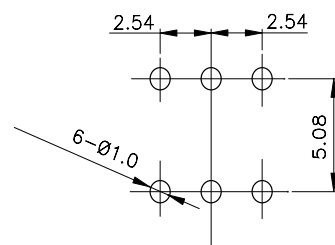
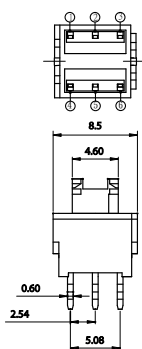
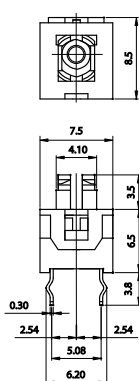
» Operating characteristics

Unit: mm

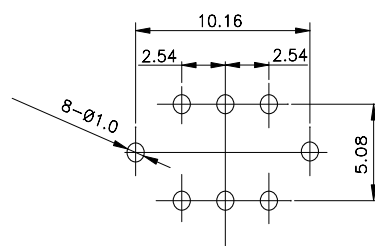
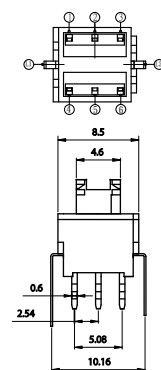
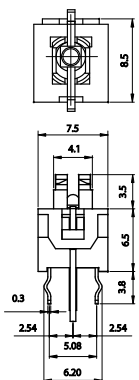
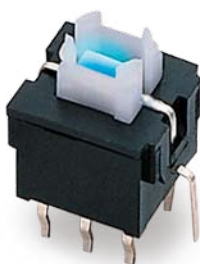
Dimensions

P.C.B Layout

TP613



TP613 L



» Features

- Epoxy sealing treatment, free of flux entry.
- Several LED colors options.
- Side-actuated with right angle terminal.
- Several cap legends options.



» Applications

- Operating switches in all types of electronic equipment such as audio apparatus, office equipment, communications apparatus, TV sets, VCRs, etc.

» Specifications

Rating	0.1A 30VDC
Insulation Resistance	100MΩ Min (at 500 VDC)
Dielectric Strength	AC 500V (50/60 Hz for 1 minute)
Contact Resistance	50mΩ Max. (Initial)
Electrically Life	10,000 Cycles Min
Ambient Temperature	-10°C~ +80°C
Operating Force	150 ± 100gf (Momentary)
	250 ± 100gf (Alternate)
	200 ± 100gf (Momentary With Click)

» LED Specifications

Color	VR	IF	Recommended Operating Current	VF	
				Nor	Max
Red	DC 5V	20mA	20mA	1.7V	2.4V
Green	DC 5V	20mA	20mA	1.9V	2.4V
Yellow	DC 5V	20mA	20mA	1.9V	2.4V
Blue	DC 5V	20mA	20mA	3.0V	3.6V
White	DC 5V	20mA	20mA	3.0V	3.6V

For the specification about the other LEDs, please contact with sales department

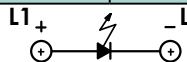
» Product selection

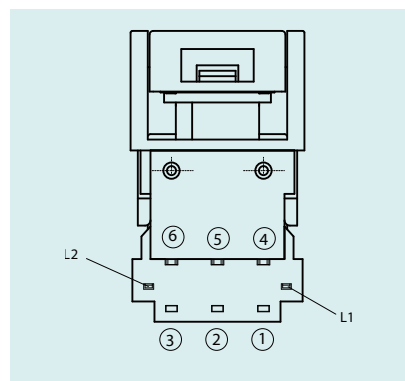
PB 613

BUTTON TYPE		FUNCTION		LED		LED BRIGHTNESS		SUPPORT PIN		LASER ETCHING	
1		A	Alternate	-	Non-LED	-	Standard	-	Without	01	
2		B	Momentary with click	L	LED	C	High Brightness	WS		02	
3								WS2		03	OK
4										04	
5										05	
6										06	
01										07	
02										08	
03										09	
04										10	
05											
07											

Please inquire about the details with our sales representative.

» Circuit

Type	Switch Action	
PB613 ARF	Normal ON	Push to lock ON
Connecting Terminal	1 - 2 4 - 5	2 - 3 5 - 6
PB613 BRF	Normal ON	Push (ON)
Connecting Terminal	1 - 2 4 - 5	2 - 3 5 - 6
LED Circuit		



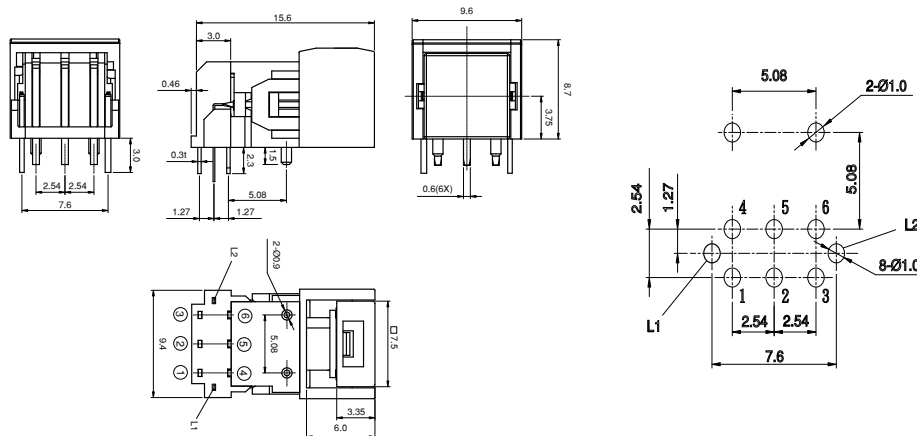
» Operating characteristics

Unit: mm

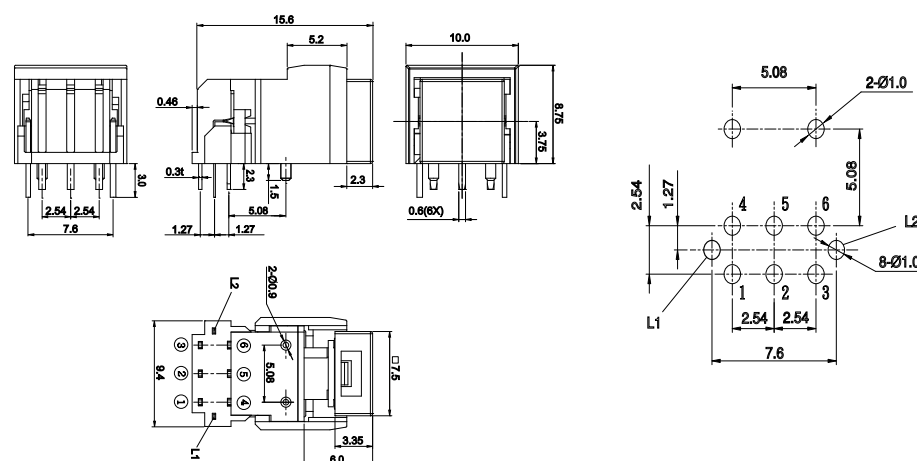
Dimensions

P.C.B Layout

PB6131□RFIL-3-177



PB6131□RFGL-3-177

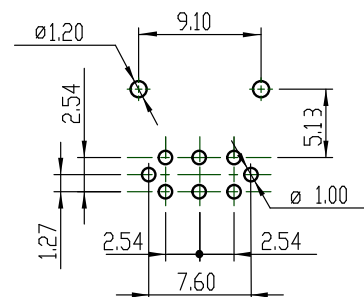
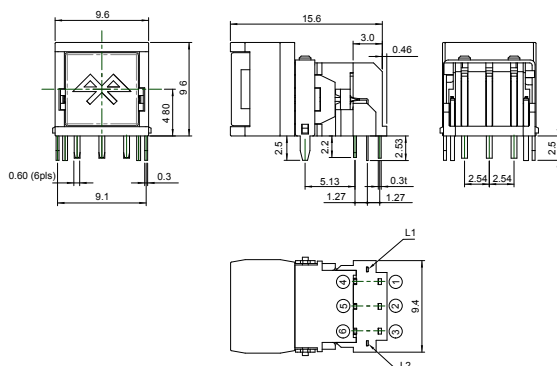


» Operating characteristics

Unit: mm

Dimensions

P.C.B Layout

PB6131 RFJL-4-WS-5195PB6131 RFI L-4-WS2-5238