

SPECIFICATIONS:

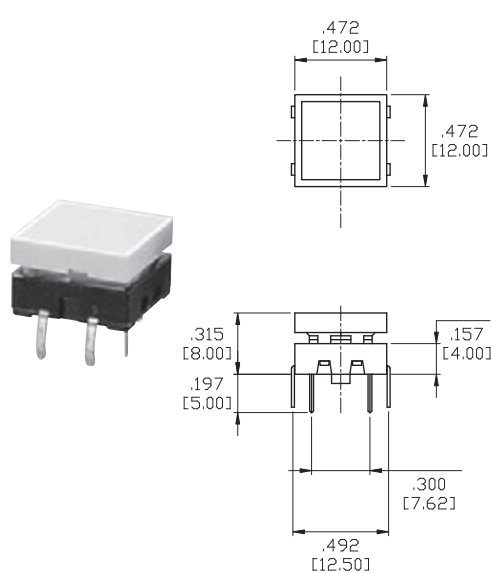
OPERATING TEMPERATURE: -25°C ~ +60°C.
 AMBIENT HUMIDITY: 85%RH max.
 CONTACT ARRANGEMENT: SPST
 CURRENT RATING: 50mA 12VDC.
 LED RATING: 20mA 6V max.
 CONTACT RESISTANCE: 100m-ohms max (initial).
 INSULATION RESISTANCE: 100M-ohms min.
 OPERATING FORCE: 300±50gf max.
 TOTAL TRAVEL: 0.30mm±0.10mm.
 OPERATING LIFE: 5,000,000 cycles min.
 SOLDERING: 260°C @ 3 seconds.

MATERIALS:

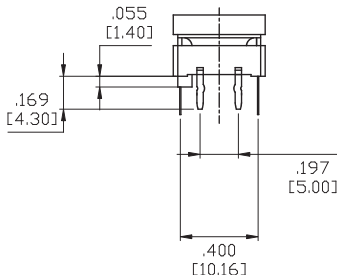
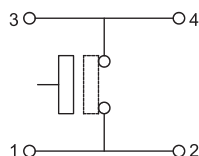
CAP: PC.
 COVER: PC.
 BASE: PA.
 HOUSING: PC.
 LAMP TERMINAL: PBS with Au plated.
 ACT DOME: PBS with Au plated.
 TERMINAL: Brass with Au plated.
 LED: Surface mount chip LED.

Specifications and Dimensions subject to change

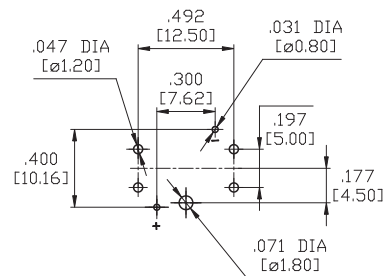
LP-12



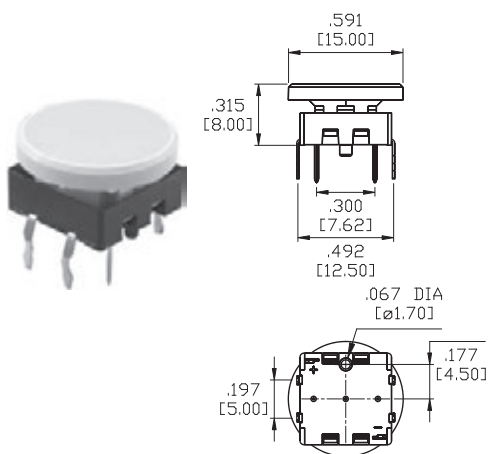
Contact Configuration



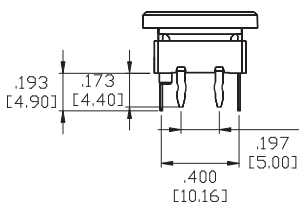
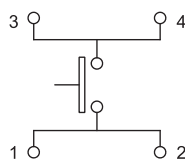
P.C.MOUNTING



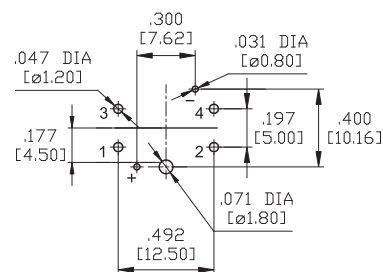
LP-12R



Contact Configuration



P.C.MOUNTING



Toggle

Rocker

Slide

Pushbutton

AV

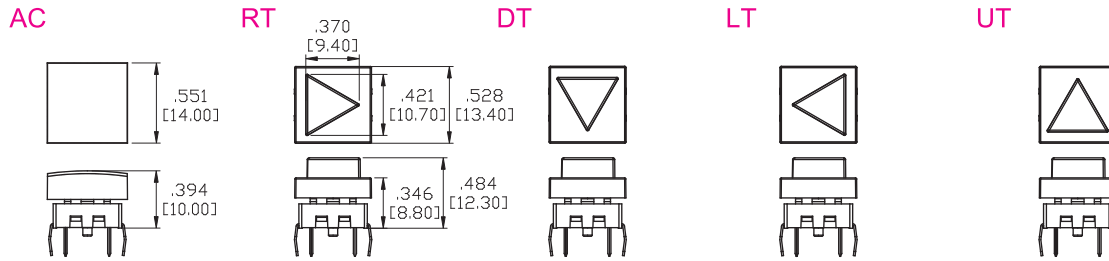
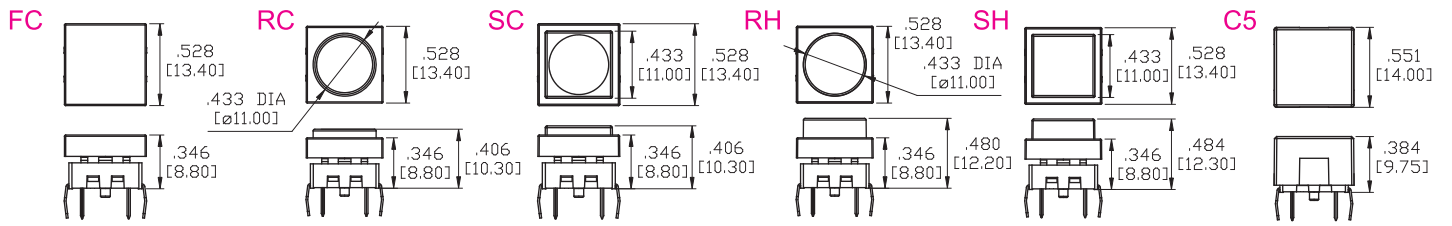
Rotary

Tact

Touch Key

Miscellaneous

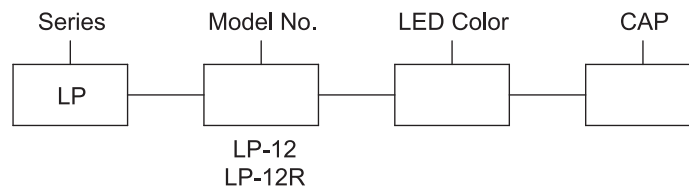
CAP OPTIONS



LED COLORS

Code	LED Color
R	Red
G	Green
Y	Yellow
B	Blue
W	White

HOW TO ORDER



SPECIFICATIONS:

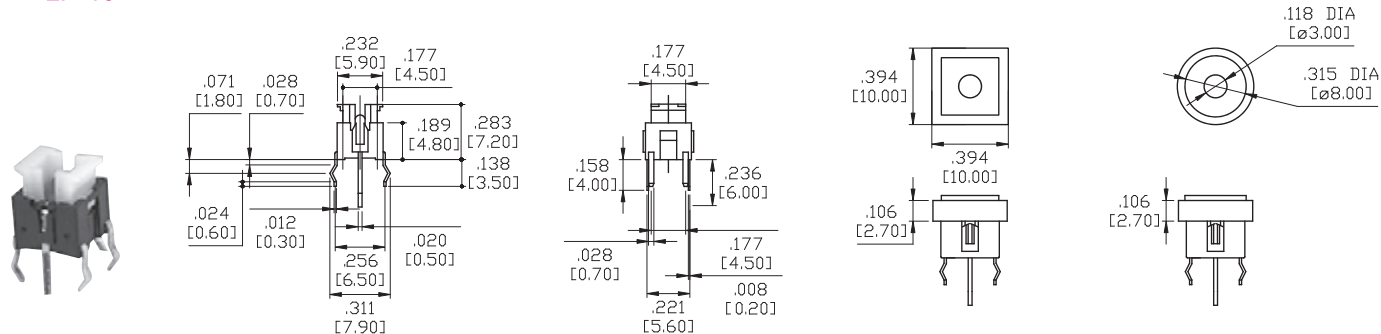
OPERATING TEMPERATURE: -20°C ~ +70°C.
 AMBIENT HUMIDITY: 85%RH max.
 CONTACT ARRANGEMENT: SPST
 RATED VOLTAGE AND CURRENT: 12VDC 50mA.
 LED RATING: 20mA 4V.
 CONTACT RESISTANCE: 100m-ohms max (initial).
 INSULATION RESISTANCE: 100M-ohms min.
 DIELECTRIC STRENGTH: 250VAC for 1 min.
 OPERATING FORCE: 200±50gf max.
 TOTAL TRAVEL: 0.25±0.10mm.
 OPERATING LIFE: 100,000 cycles min.
 MALFUNCTION DURABILITY: 10 to 55 Hz 0.75mm,
 double amplitude during 2 hrs.

MATERIALS:

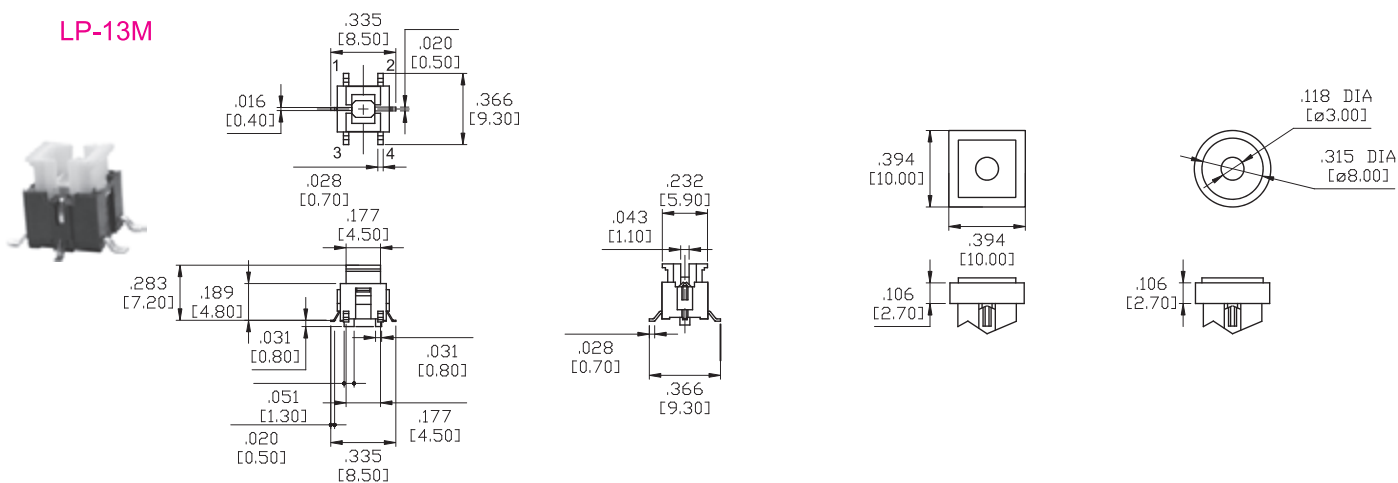
CAP: ABS.
 HOUSING: Nylon66+15%gf.
 BASE: PBT.
 MOVABLE BLADE: SUS S01 + AG.
 TERMINAL: Brass + AG.

Toggle
Rocker
Slide
Pushbutton
AV
Rotary
Tact
Touch Key
Miscellaneous

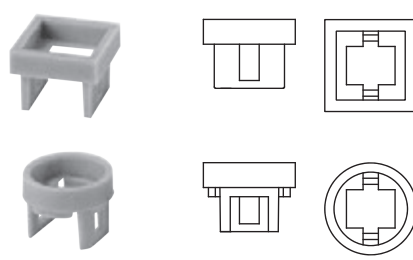
LP-13



LP-13M



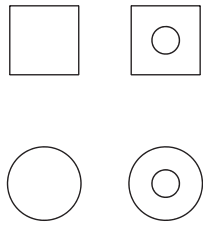
HOUSING & COLOR OPTIONS



Code	Housing Model
A	
B	
E	Without Housing

Code	Color
5	Gray
6	Black
0	Without Housing

CAP & COLOR OPTIONS



Code	CAP Model
A	Without LED
B	With LED
C	Without LED
D	With LED
E	Without LED

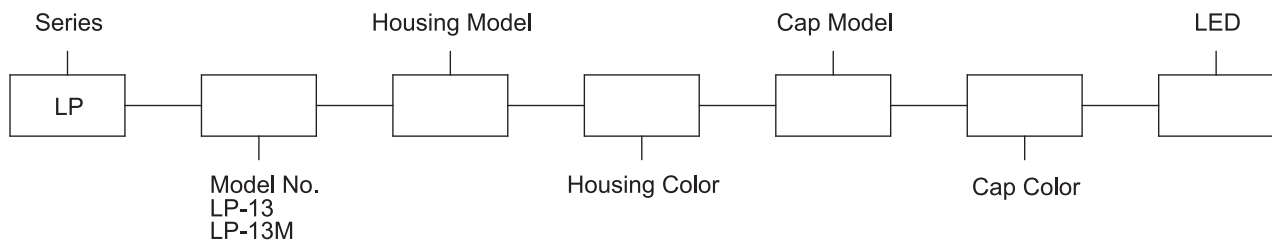
Code	Color
1	Red
2	Green
3	Orange
4	Ivory
5	Gray
6	Black
7	Blue
0	Without CAP

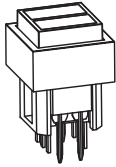
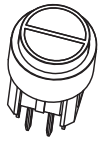
LED COLORS

Code	LED Color
1	Red
2	Green
3	Orange
0	Without LED

Code	LED Color
7	Blue
8	White

HOW TO ORDER





SPECIFICATIONS:

CONTACT RATING: 100mA 30VDC (LPA-M/A).
 50mA 12VDC (LPA-T).
 ELECTRICAL LIFE: 10,000 cycles (LPA-M/A).
 800,000 cycles (LPA-T).
 CONTACT RESISTANCE: 100m-ohms max (initial).
 INSULATION RESISTANCE: 500VDC 100M-ohms min.
 OPERATING TEMPERATURE: 10°C ~ +60°C.
 OPERATING FORCE: 200±80gf max. (LPA-M/A).
 180±50gf max. (LPA-T).
 TOTAL TRAVEL: 2.50mm max. lock 1.50mm (LPA-M/A).
 0.30mm±0.20mm (LPA-T).
 CIRCUIT: DPDT (LPA-M/A), SPST (LPA-T).

MATERIALS:

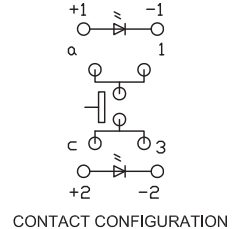
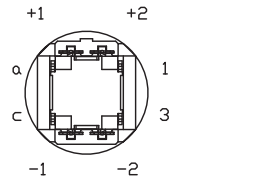
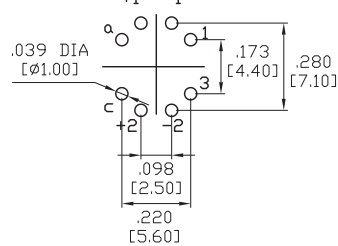
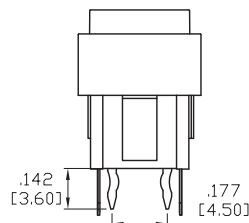
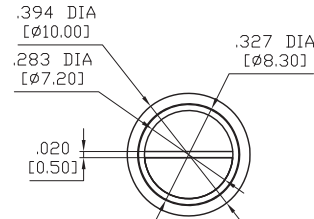
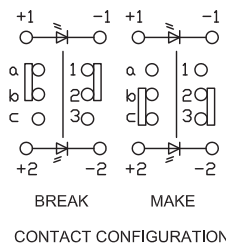
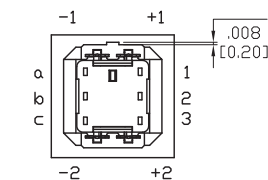
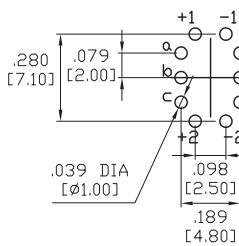
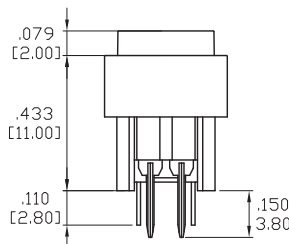
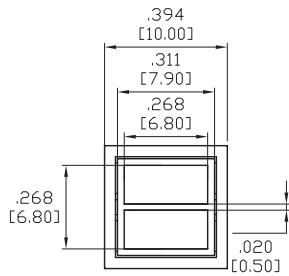
CAP: PC or ABS.
 CAP LENS: PC.
 HOUSING: PA.
 CONTACT: PBS Ag plated (LPA-M/A).
 ACT DOME: SUS with Ag plating (LPA-T).
 LED TERMINAL: PBS with Au plated.
 TERMINAL: Brass Ag plated.

Specifications and Dimensions subject to change

LPA-M MOMENTARY

LPA-A ALTERNATE

LPA-T TACTILE





Drawing Scale: 2 / 1

HOUSING & COLOR OPTIONS

Code	Housing Model
A	Square
B	Round

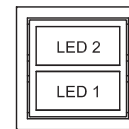
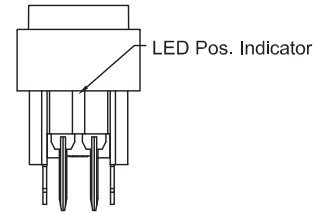
CAP & COLOR OPTIONS

Code	CAP Model	
F		With LED
G		With LED

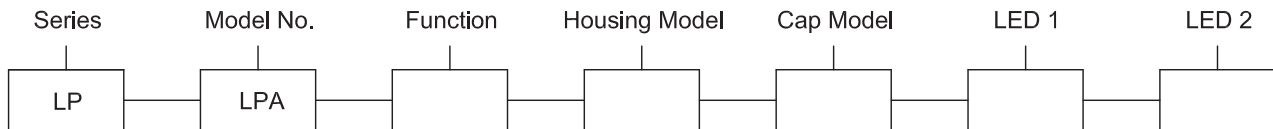
LED COLORS

Code	LED Color
R	Red
G	Green
Y	Yellow
B	Blue
W	White

Code	LED Color
0	Without LED



HOW TO ORDER



T - Tactile
M - Momentary
A - Alternate

SPECIFICATIONS:

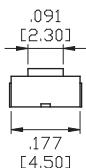
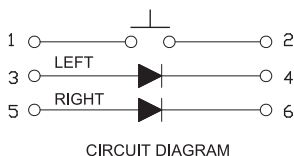
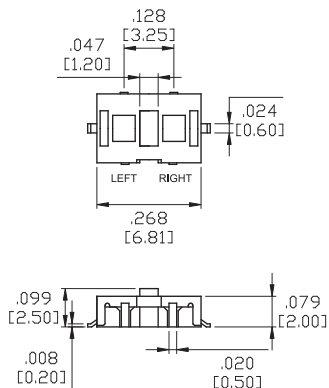
CONTACT RATING: 12VDC, 50mA max. 1VDC, 10uA min.
 ELECTRICAL LIFE: 30,000 cycles.
 CONTACT RESISTANCE: 500m-ohms max.
 INSULATION RESISTANCE: 100VDC 100M-ohms min.
 OPERATING FORCE: 160+75/-30 gf.
 OPERATING TEMPERATURE: -20°C ~ +70°C.
 FUNCTION: Momentary action.
 CONTACT ARRANGEMENT: SPST, N.O.
 IR SOLDERING: 240°C for 3sec. max.
 PACKAGING: 2,900pcs per tape reel.

MATERIALS:

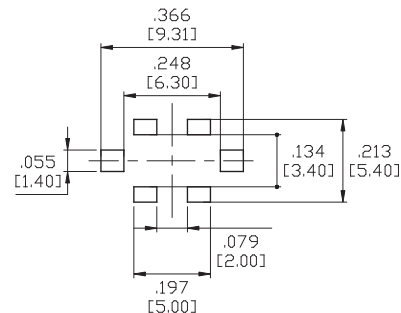
COVER: PA9T + GF.
 ACTUATOR: LCP + GF.
 BASE FRAME: LCP + GF.
 TERMINAL: Silver plating.

Specifications and Dimensions subject to change

LP14



SURFACE MOUNTING

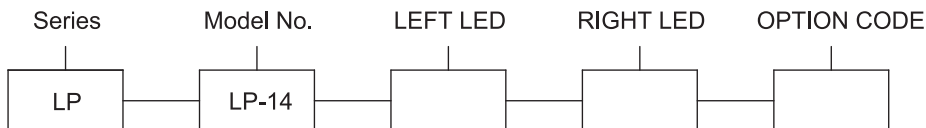


LED COLORS

Code	LED Color
R	Red
G	Green
Y	Yellow
B	Blue
W	White

Code	LED Color
0	Without LED

HOW TO ORDER



U - Ultra LED Brightness