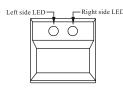
Pushbutton Switches

Momentary Pushbutton Switches with LED

PB9 Series





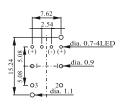
LED Positions



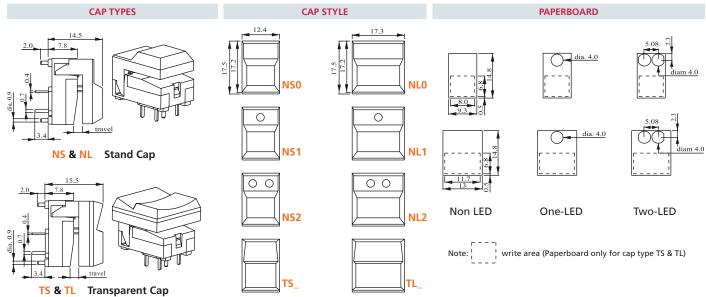
SPDT Contact Configuration



Bottom View



P.C.B. Mounting Holes



LED CHARACTERISTICS

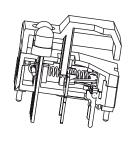
Parameters	Symbol (Unit)	Red	Yellow	Green	Blue
Forward Voltage	V _F (V)	2.0	2.1	2.2	3.5
Forward Current	I _F (mA)	20	20	20	20
Permissible Loss	P⊳(mW)	80	80	80	120
Luminous Intensity	l _v (mcd)	60	50	60	600
Peak Wave Length	λP(nm)	635	585	568	470
Reverse Voltage	V _R (V)	5			
Reverse Current V _R =5V	(uA)	100			
Soldering Temperature	(°C)	260 for 5 seconds			

The electrical specifications shown are determined at a basic temperature of 25°C. If the source voltage exceeds the rated of LED, a ballast resistor has to be connected in series with the LED.

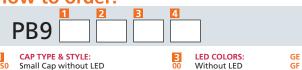
Attention: LED are electrostatic sensi-



CUTAWAY



How to order:



- Small Cap without LED Small Cap with One-LED Small Cap with Two-LED Large Cap without LED Large Cap with One-LED Large Cap with Two-LED NL1 Transparent Small Cap without LED Transparent Small Cap with One-LED Transparent Small Cap with Two-LED Transparent Large Cap without LED Transparent Large Cap with One-LED Transparent Large Cap with Two-LED TI 1
- 2 CAP COLORS (Only for NS & NL Cap): Red Yellow Green
- Black Orange Blue

- One-LED: Red
- Yellow Green Blue
- Two-LED (Left / Right): Red / Red Red / Yellow Red / Green Red / Blue

Green / Red

Green / Blue Blue / Red

Green / Yellow Green / Green

- Yellow / Red Yellow / Yellow Yellow / Green Yellow / Blue
- Blue / Blue 4 LED TERMINAL & FLECTRODE DIRECTION: no code
- + o o Bend (One-LED) o + - o Standard (One-LED) o - + o (One-LED) +--+ Standard (Two-LED) -++- (Two-LED) no code - + - + (Two-LFD) + - + - (Two-LED)

Standard: No Code

Blue / Yellow Blue / Green

+ : anode - : cathode o: none this pin

Mounting hole:

General Specifications:

ELECTRICAL & MECHANICAL SPECIFICATIONS:

- » Circuit: SPDT
- » Current Rating: 12 mA
- » Voltage Rating: 24 VDC
- » Contact Resistance: 50 m Ω max. (initial)
- » Insulation Resistance: $100M\Omega$ min.
- » Operating Force: 170±50 gf
- » Total Travel: 2.5±0.5 mm
- » Operating Life: 1,000,000 cycles min. » Soldering: 260 °C for 3 seconds
- » Operating Temperature: -10 °C \sim +60 °C
- » Function: Momentary

- » Cap: Acrylonitrile Butadine Styrene (ABS)
- » Case: Polyamide (PA)
- » Fixed Support: Stainless steel wire
- » Terminals: Phosphor bronze (PBS) with gold plating » Moving Contact: Phosphor bronze (PBS) with gold plating
- » Spring: Piano wire
- » LED: 3mm Diameter LED lamp