

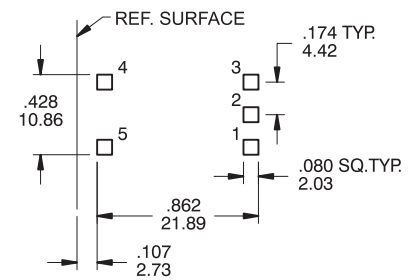
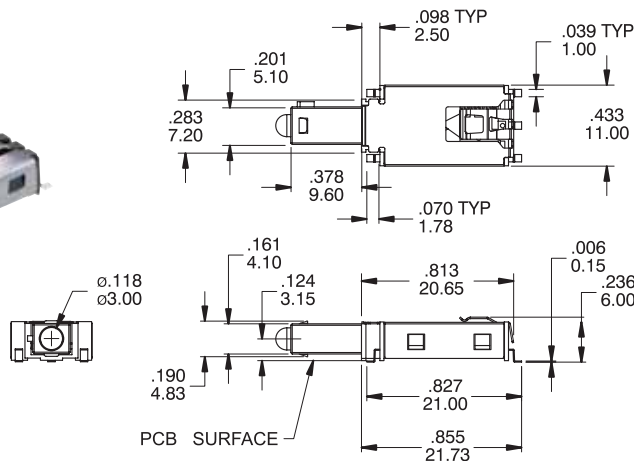
# Pushbutton Switches

## Illuminated Latching Pushbutton Switches

## PB66 Series



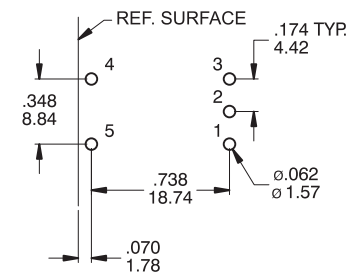
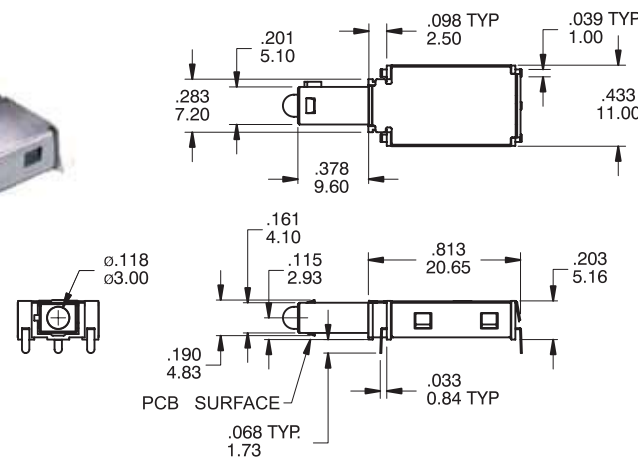
**PB66E2...**  
ON-ON  
Yellow LED  
Surface Mount  
Right Angle



P. C. MOUNTING



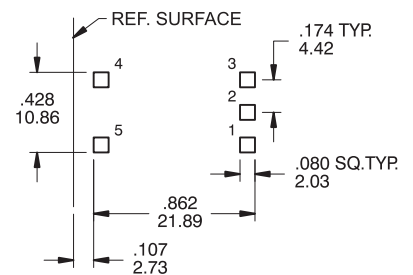
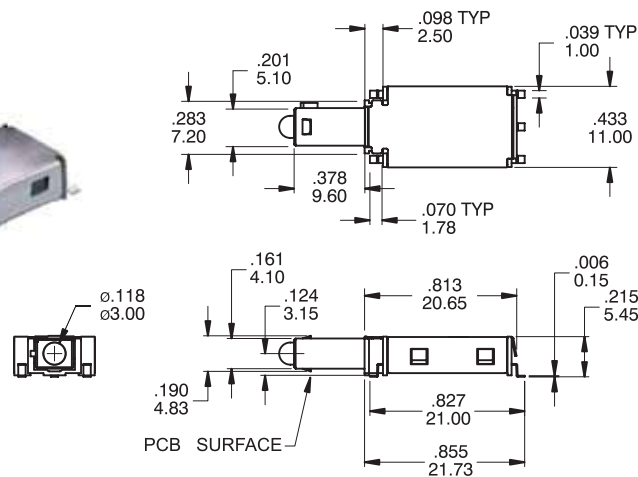
**PB66E1...**  
ON-MOM  
Yellow LED  
Thru-Hole  
Right Angle



P. C. MOUNTING



**PB66C2...**  
ON-MOM  
Red LED  
Surface Mount  
Right Angle



P. C. MOUNTING

### How to order:

PB66

1	CIRCUITS:	2	LED COLOR:	3	TERMINATIONS	4	ROHS SOLDERING		
1	ON-MOM	N	No LED	B	White	1	Thru-Hole	V	Rohs & Lead Free
2	ON-ON	C	Red	G	Blue	2	Surface Mount	H	Halogen Free + RoHs + REACH
		E	Yellow	DF	Amber/Green				
		F	Green	CF	Red/Green				

# Pushbutton Switches

## Illuminated Latching Pushbutton Switches

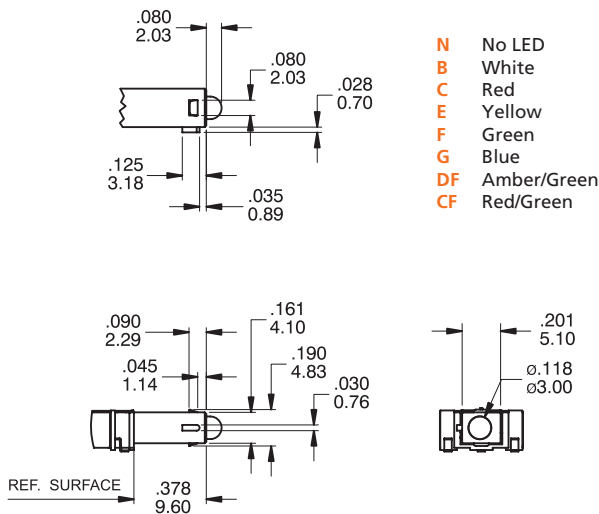
## PB66 Series

### SWITCH FUNCTION

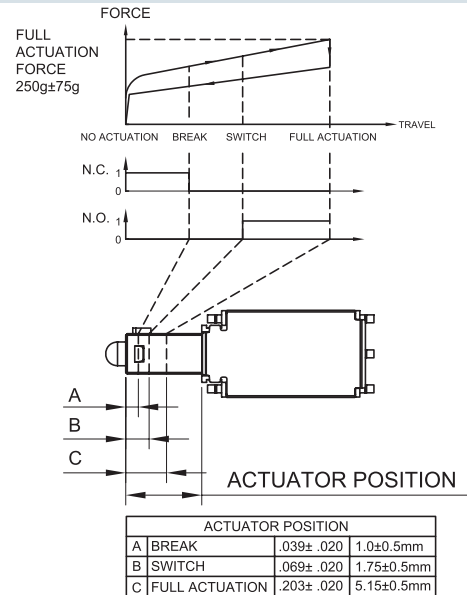
NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS.1	POS.2	POS.1	POS.2	
SP	<b>PB661</b>	ON	MOM	3-4	2-3	
SP	<b>PB662</b>	ON	ON	3-4	2-3	

MOM=MOMENTARY

### ACTUATOR OPTIONS



### FORCE TRAVEL DIAGRAM



### GENERAL SPECIFICATIONS

#### » ELECTRICAL

**MAXIMUM POWER:** 3.5 VA.  
**MIN./MAX. VOLTAGE:** 20 mV - 50 VDC.  
**MIN./MAX. CURRENT:** 0.01mA - 250 mA.  
**INSULATION RESISTANCE:**  $\geq 10^9 \Omega$ .  
**CONTACT RESISTANCE:**  $\geq 50 \text{ m}\Omega$ .  
**DIELECTRIC STRENGTH:**  $\geq 250 \text{ Vrms}$ .

#### » MECHANICAL

**OPERATING FORCE:** 2.5 N at Full Travel.  
**SWITCHING TRAVEL:** .130" (2.95mm).  
**LATCH TRAVEL:** .131" (3.3mm).  
**FULL TRAVEL:** .200" (5.1mm).

#### » OPERATING ENVIRONMENT

**OPERATING TEMPERATURE:** -30°C TO 85°C.  
**STORAGE TEMPERATURE:** -30°C TO 85°C.  
**RELATIVE HUMIDITY:** 90% R.H. @80°C.  
**OPERATING LIFE:** 30,000 Cycles.  
**VIBRATION:** Per EIA 186-E Methods 7 & 8.  
**MECHANICAL SHOCK:** Per EIA 186-E Methods 12.

#### » PROCESS ENVIRONMENT

**SOLDERABILITY:** According to Mil STD 202F Method 208D or EIA RS-186E Method 9.  
**LEAD FREE PROCESS COMPATIBLE:** 260°C peak, 10 seconds Max. above 250°C.

#### » MATERIALS

**FIXED CONTACTS AND TERMINALS:** Stainless steel, silver plated with gold flash (STD.)  
**MOVABLE CONTACTS:** Copper alloy, silver plated with gold flash (STD.).  
**ACTUATOR:** Glass filled LCP (UL94V-0).  
**BASE:** Glass filled LCP (UL94V-0).  
**COVER:** Stainless steel.

#### » WITH LED ELECTRO-OPTICAL DATA :

Lens Appearance	Color	Electro-optical Data(AT 20mA)				Peak wavelength	Viewing Angle 2 $\theta$ 1/2 (deg)	
		Vf(V)		Iv(mcd)				
		Typ.	Max.	Min.	Typ.			
Water Clear	White	3.3	3.8	4900	10000		30°	
	Red	2.35	2.8	1	3	630	50°	
	Yellow	2.1	2.6	20	35	588	65°	
	Green	2.2	2.6	50	60	570	60°	
	Blue	3.5	3.8	210	550	470	75°	
	Amber/Green	A	2.1	2.5	19	28	588	55°
		G	2.2	2.6	9	19	570	50°
	Red/Green	R	2.35	2.8		1	630	
		G	2.2	2.6	6	13	570	

# Pushbutton Switches

## Illuminated Latching Pushbutton Switches

PB66 Series

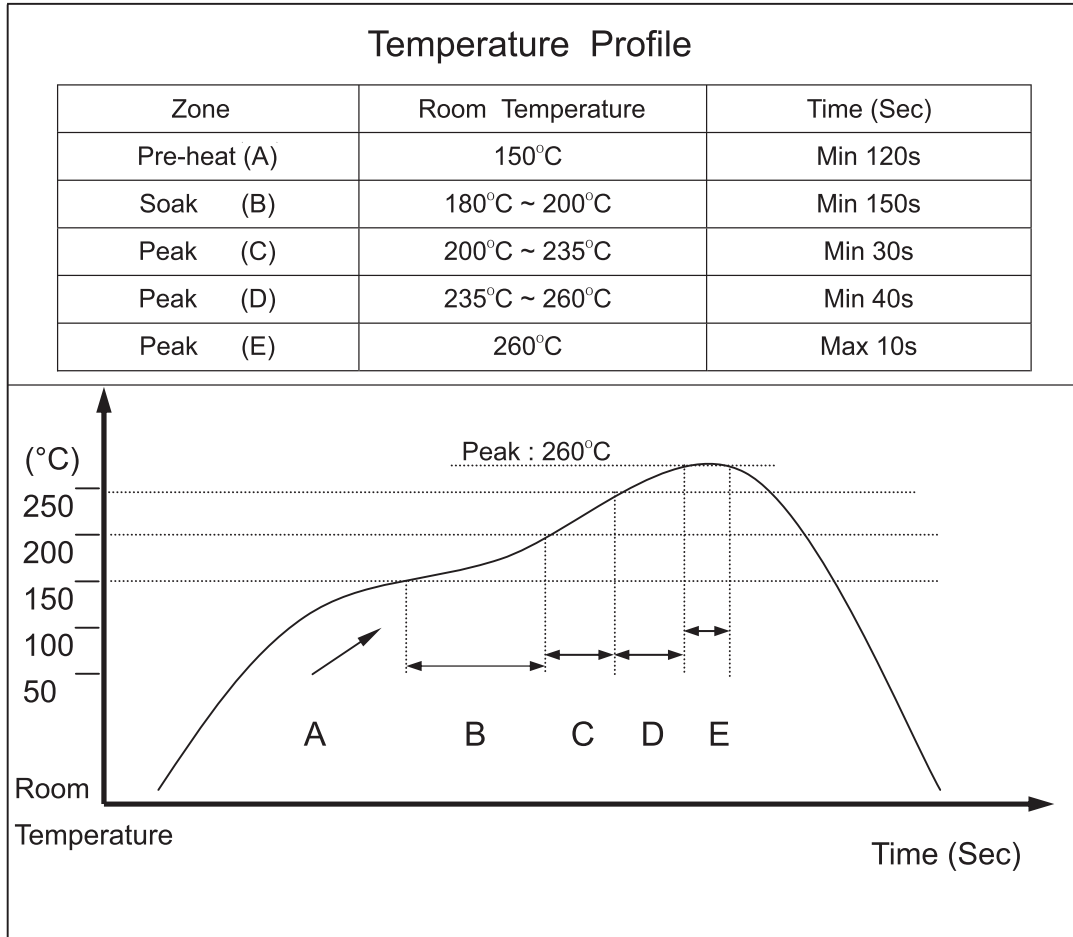
### SOLDERING PROCESSES

WAVE SOLDERING : Recommended Soldering Temperature :  $260 \pm 5^{\circ}\text{C}$

Duration of Solder Immersion :  $5 \pm 1$  seconds

(PCB is 1.6mm in thickness)

**SOLDERING : Vapor phase & IR-reflow soldering can be applied.**



### TAPE & REEL PACKING

