

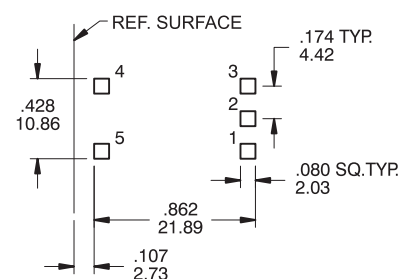
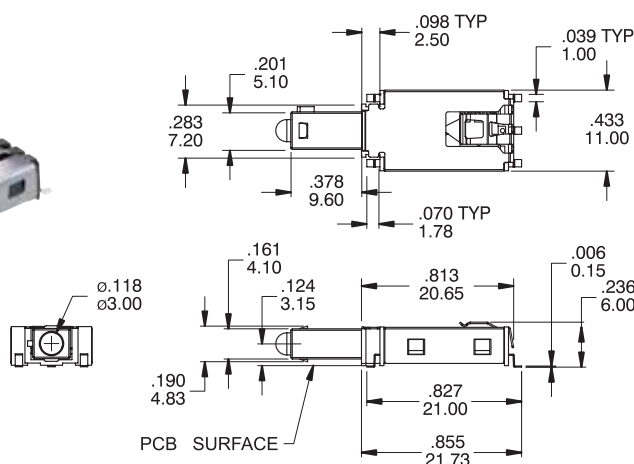
Pushbutton Switches

Illuminated Latching Pushbutton Switches

PB66 Series



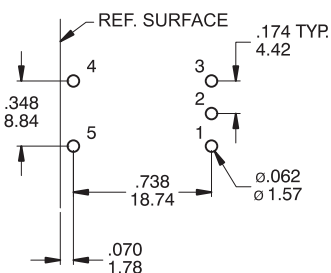
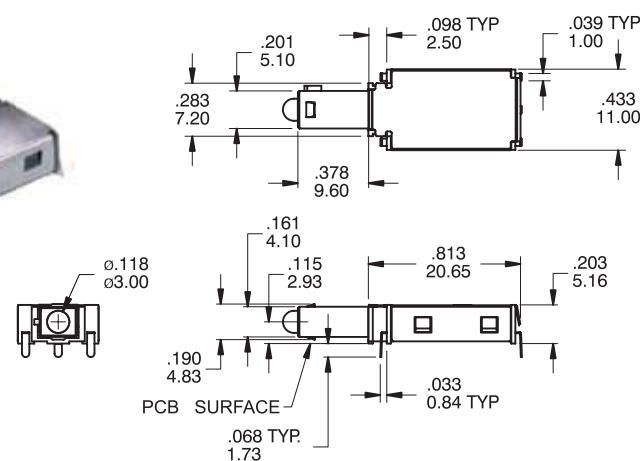
PB66E2...
ON-ON
Yellow LED
Surface Mount
Right Angle



P. C. MOUNTING



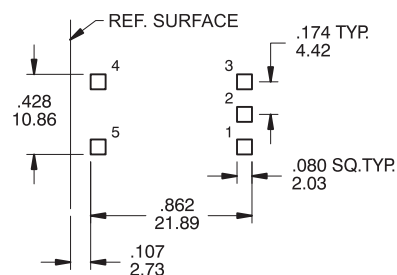
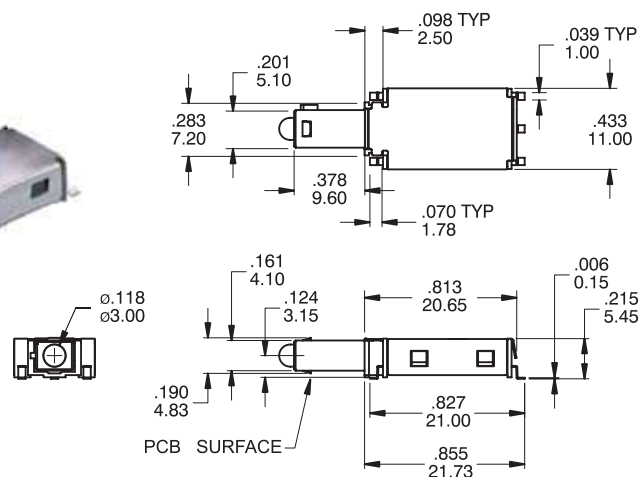
PB66E1...
ON-MOM
Yellow LED
Thru-Hole
Right Angle



P. C. MOUNTING



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



P. C. MOUNTING

How to order:

PB66 1 2 3 4

1 CIRCUITS:
1 ON-MOM
2 ON-ON

2 LED COLOR:
N No LED
C Red
E Yellow
F Green
B White
G Blue
DF Amber/Green
CF Red/Green

3 TERMINATIONS
1 Thru-Hole
2 Surface Mount

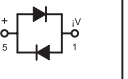
4 ROHS SOLDERING
V Rohs & Lead Free
H Halogen Free + RoHs + REACH

Pushbutton Switches

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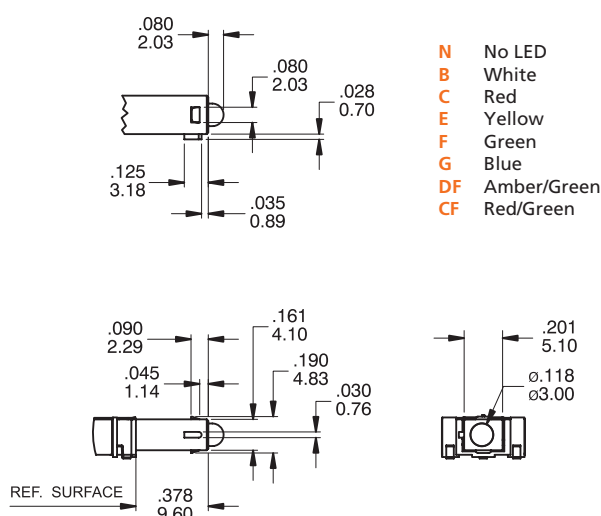
PB66 Series

SWITCH FUNCTION

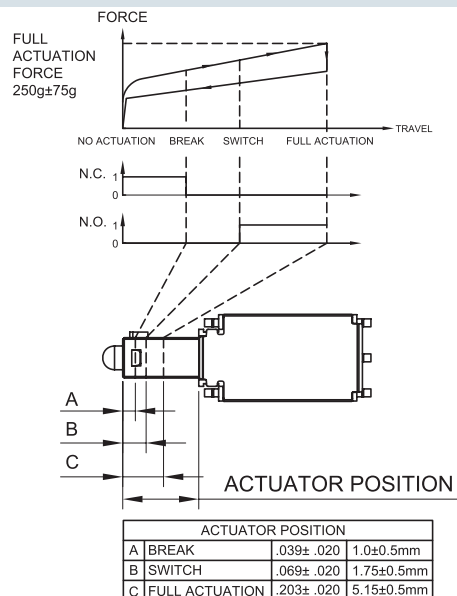
NO. POLES	MODEL NO.	SWITCH FUNCTION		CONNECTED TERMINALS		SCHEMATIC
		POS.1	POS.2	POS.1	POS.2	
						Single colors LED  Dual colors LED 
SP	PB661	ON	MOM	3-4	2-3	
SP	PB662	ON	ON	3-4	2-3	

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 2θ 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	

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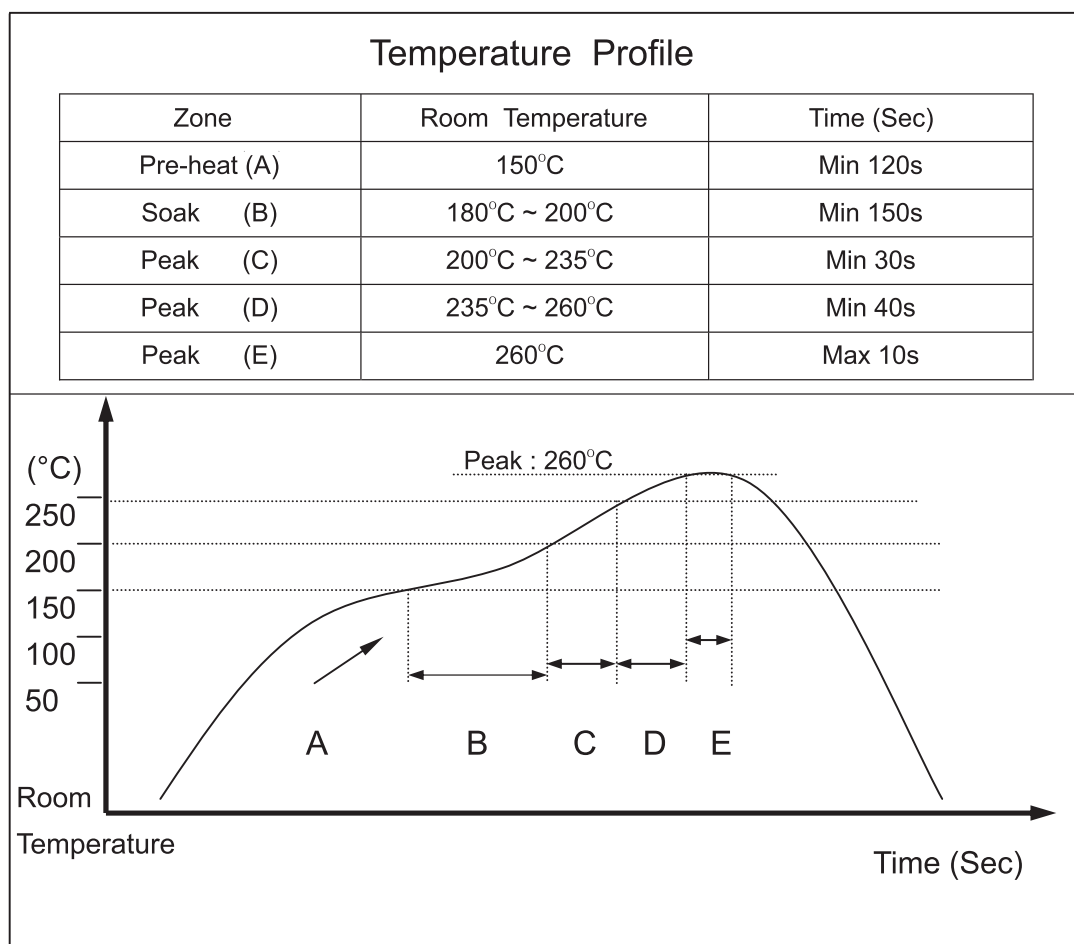
SOLDERING PROCESSES

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

Duration of Solder Immersion : 5 ± 1 seconds

(PCB is 1.6mm in thickness)

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



TAPE & REEL PACKING

