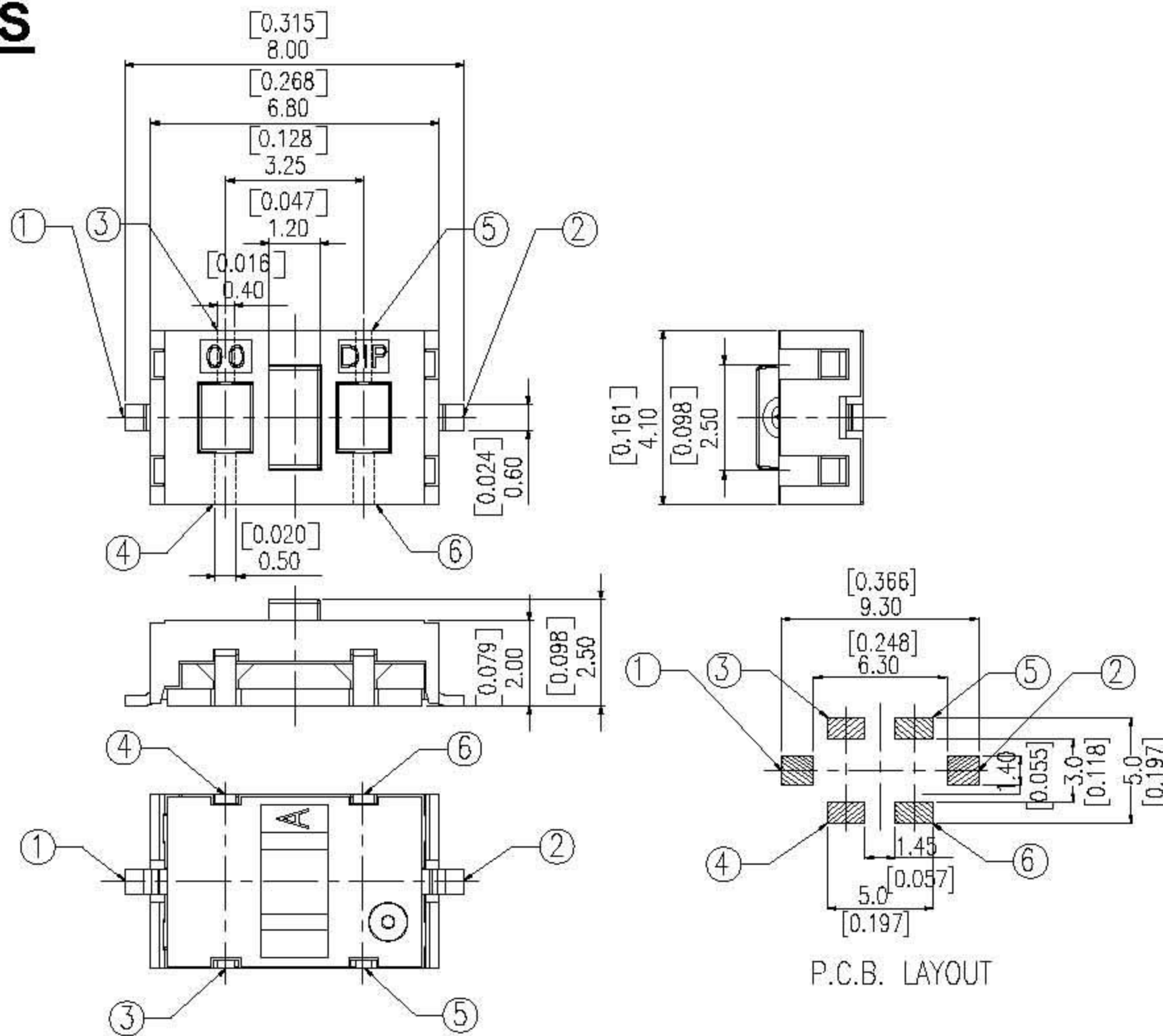


# TML-3 SERIES

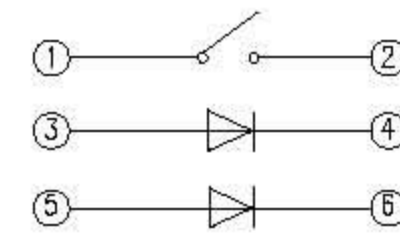


## DIMENSIONS

TML-3



NO.	LED COLOR
X	NON-LED
R	RED
O	SOFT ORANGE
G	GREEN
B	BLUE
S	AMBER



CIRCUIT DIAGRAM

General Tolerance :  $\pm 0.2\text{mm}$

## HOW TO ORDER

T M L - 3 W   -  -

Package Style :  
T/R = Tape & Reel

Soldering :  
V = Lead Free Solderable

Right LED Color  
X = No LED  
R = Red  
G = Greed  
O = Soft Orange  
B = Blue  
S = Amber

Left LED Color  
X = No LED  
R = Red  
G = Greed  
O = Soft Orange  
B = Blue  
S = Amber

Operating Force :  
W = White, 160gf

Prod. No.  
4.1X6.8mm

Tactile Switch

## SPECIFICATION

### △MECHANICAL

Operation Force: 160±50gf Brown (N)  
 Stroke : 0.25+0.2/-0.1mm  
 Operation Temperature: -20°C to +70°C  
 Storage Temperature: -30°C to +80°C

### △ELECTRICAL

Electrical Life: 50,000 cycles for 160gf  
 Rating:50mA , 12VDC  
 Contact Resistance: 100mΩ max.  
 Insulation Resistance: 100MΩ min. 500V DC  
 Dielectric Strength: 250VAC / 1 minute  
 Contact Arrangement 1 pole 1 throw  
 LED : See Specification.

## MATERIAL

△Cover : UL 94V-0 Nylon High-temp Thermoplastic.  
 Color : White  
 △STEM : UL 94V-0 Nylon High-temp Thermoplastic.  
 Color : Black  
 △CONTACT : Stainless with silver cladding.  
 △BASE : UL 94V-0 Nylon High-temp Thermoplastic.  
 Color : White(160gf)  
 △TERMINAL : Brass, Silver cladding  
 △ADHESIONS TAPE : Kapton

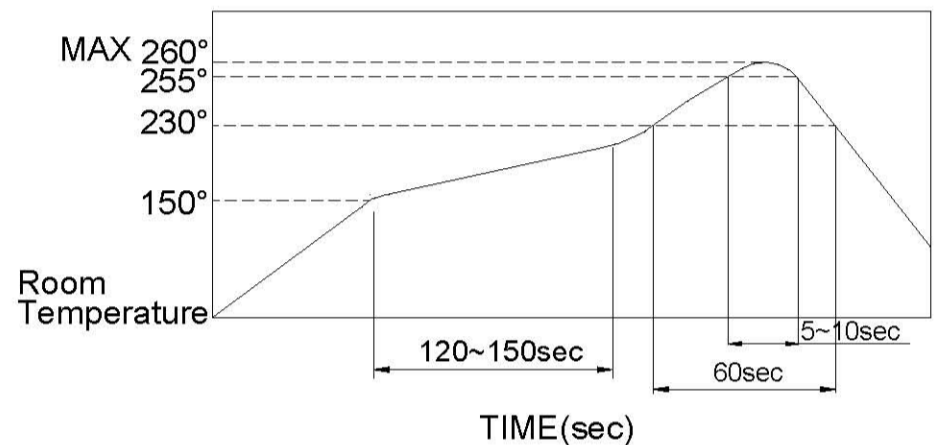
## SOLDERING PROCESS

△HAND SOLDERING: Use a soldering iron of 30 watts, controlled at 350°C approximately Max 5 seconds while applying.

△REFLOW SOLDERING: When applying reflow soldering, the peak temperature or the reflow oven should be set to 260°C max.

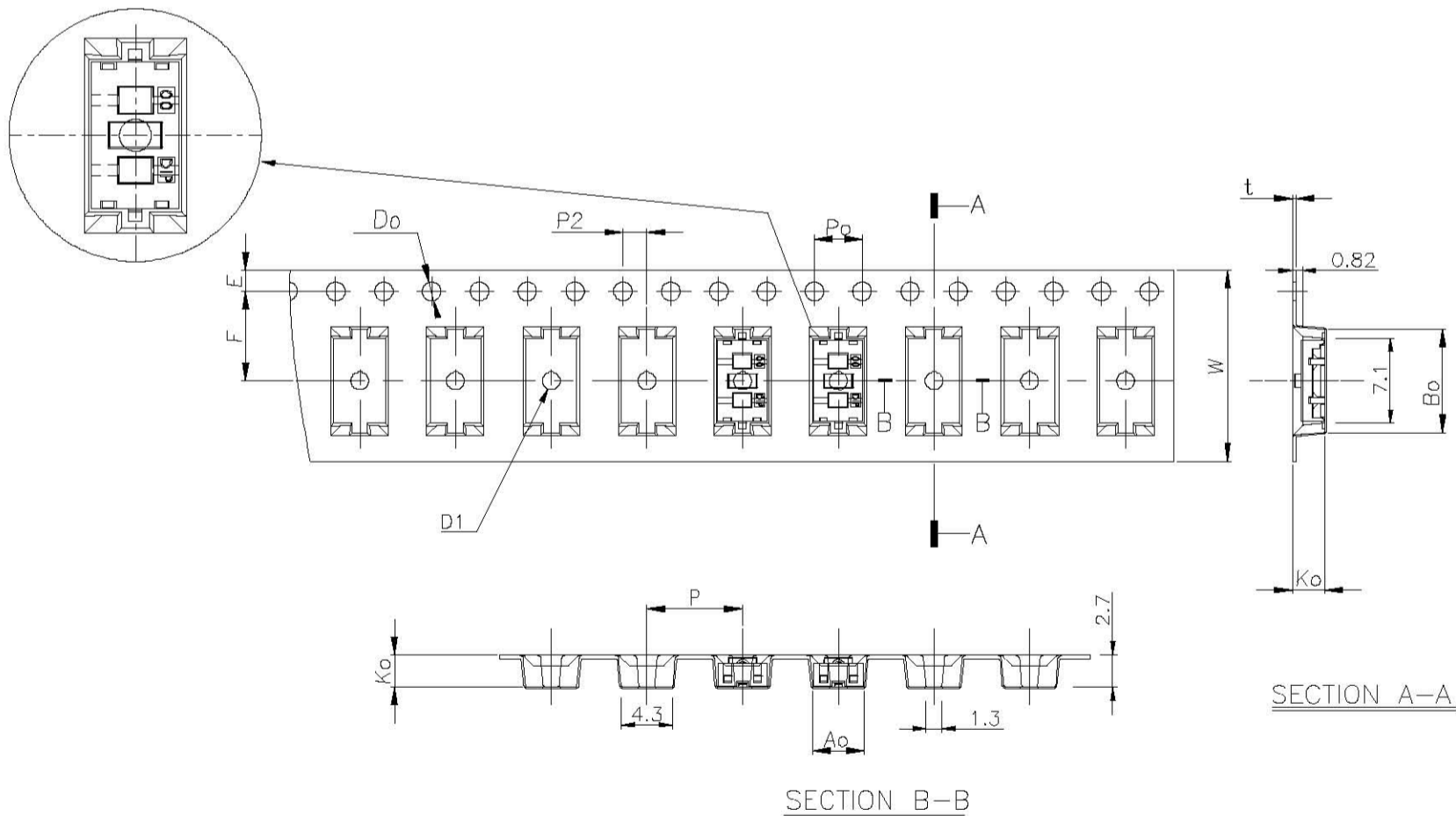
△CONDITION FOR SOLDERING : Reflow & non-washable type

△Temperature Profile :



## PACKING

Part Number	Number Per Reel	Number Per Bag
TML-3	3000	-



Carrier Length: 76M/22" Paper reel( 13" Plastic reelx3) Q'ty:3000pcs/13"reel													
ITEM	W	A <sub>0</sub>	B <sub>0</sub>	K <sub>0</sub>	P	F	E	D <sub>0</sub>	D <sub>1</sub>	P <sub>0</sub>	P <sub>2</sub>	t	
DIM	16.0 <sup>+0.30</sup> <sub>-0.30</sub>	4.3 <sup>+0.10</sup> <sub>-0.10</sub>	8.6 <sup>+0.10</sup> <sub>-0.10</sub>	2.7 <sup>+0.10</sup> <sub>-0.10</sub>	8.0 <sup>+0.10</sup> <sub>-0.10</sub>	7.5 <sup>+0.10</sup> <sub>-0.10</sub>	1.75 <sup>+0.10</sup> <sub>-0.10</sub>	1.50 <sup>+0.10</sup> <sub>-0.00</sub>	1.50 <sup>+0.10</sup> <sub>-0.00</sub>	4.00 <sup>+0.10</sup> <sub>-0.10</sub>	2.00 <sup>+0.10</sup> <sub>-0.10</sub>	0.35 <sup>+0.05</sup> <sub>-0.05</sub>	

General Tolerance : ±0.1mm

## PRECAUTION in HANDLING

△After reflow, do not touch LED before cooling, or it could influence LED function.

△It is a normal material characteristic when yellowing on plastic surface after reflow.

△Care should be exercised so that flux from the upper part of the printed circuit board does not adhere to the switch