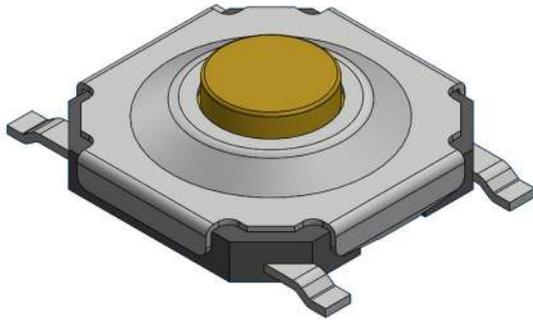


# PRODUCT SPECIFICATION

<b>Part Number</b>	SWT0220			<b>Rev</b>	A1		<b>Date</b>	12/09/25
<b>Product Description</b>	Tactile Switch, 5.2 X 5.2mm, Top Actuated, Gull Wing, SPST – NO						<b>Page</b>	1
<b>Doc Number</b>	SWT0220	<b>Prepared</b>	CC	<b>Checked</b>	YR	<b>Approved</b>	PH	



**Features:**

Outline: 5.2 X 5.2 mm

Profile height: 1.60mm

Actuated Orientation: Top Actuated

Lead Type: Gull Wing

**Specification:**

**Material**

- Case: LCP, Black
- Terminal: Phosphor Bronze
- Contact: Stainless Steel
- Film: PI, Yellow
- Cover: Stainless Steel
- Button: Brass

**Plating**

- Terminal: Silver Plated
- Contact: Silver Plated

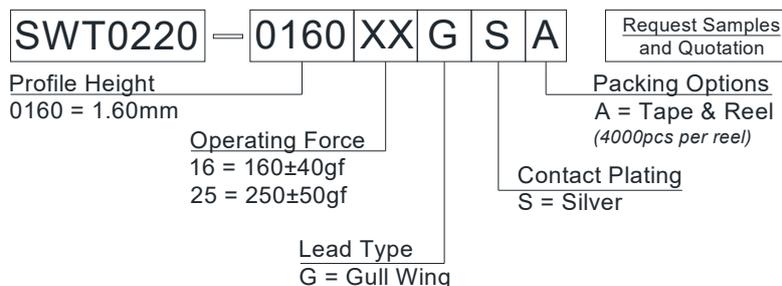
**Electrical**

- Voltage rating: 12V DC
- Current Rating: 50mA Max.
- Contact Resistance: 500mΩ Max.
- Dielectric Withstanding Voltage: 250V AC
- Insulation Resistance: 100MΩ Min

**Mechanical & Environmental**

- Operating Temperature: -40°C to +85°C
- Operating Force: See Ordering Grid
- Travel: 0.25±0.10mm
- Durability: 100,000 cycles
- Solder Tails Co-planarity: 0.10mm Max.

**Ordering Grid:**



# PRODUCT SPECIFICATION

<b>Part Number</b>	SWT0220	<b>Rev</b>	A1	<b>Date</b>	12/09/25		
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## Reflow Soldering Profile:

Pb-free reflow profile requirements

Parameter	Reference	Specification
Average temperature gradient in preheating		2.5°C/s
Soak time	t <sub>soak</sub>	2-3 minutes
Time above 217°C	t <sub>1</sub>	60 s
Time above 230°C	t <sub>2</sub>	50 s
Time above 250°C	t <sub>3</sub>	3 s
Peak temperature in reflow	T <sub>peak</sub>	255°C (-0/+5°C)
Temperature gradient in cooling		Max -5°C/s

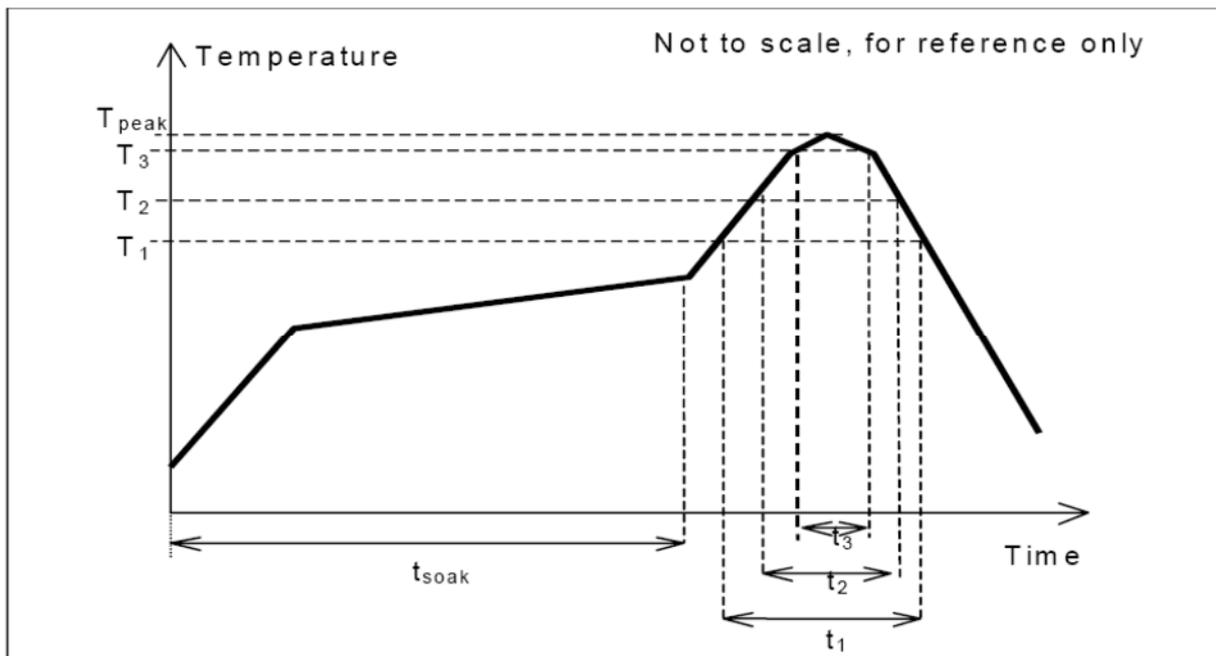


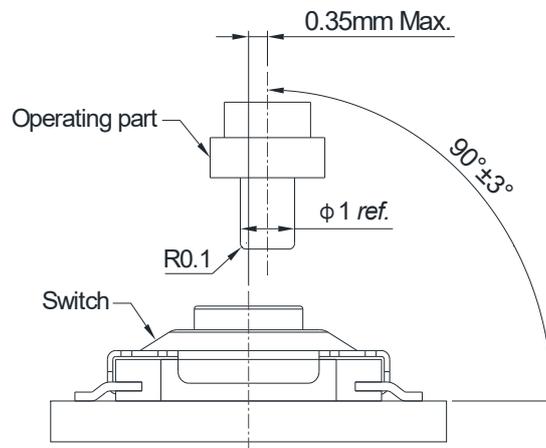
Fig. 1.0, this profile is the minimum requirement for evaluating soldering heat resistance of components. Heat transfer method used for reflow soldering is hot air convection. The actual air temperatures used to achieve the specified profile is higher and largely dependent on the reflow equipment.

# PRODUCT SPECIFICATION

<b>Part Number</b>	SWT0220	<b>Rev</b>	A1	<b>Date</b>	12/09/25		
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## Precaution for Operating:

1. Deviation of operating part from the centre axis of the switch shall be within 0.35mm.
2. Allowable operating angle:  $90 \pm 3$  degrees.
3. Do not overload and shock the switch.
4. Avoid pressing on the button with sharp objects.
5. Cleaning after product soldering is not allowed.
6. Avoid switching on for a long time.



## Recommended Operating Conditions

## Precaution for Handling and Storage:

1. Products are vacuum sealed in plastic bag with desiccant.
2. Recommended storage conditions:  $-20$  to  $+50^{\circ}\text{C}$ , 20% to 85% humidity.
3. Avoid exposing to corrosive gas, direct sunlight.
4. After the packaging is opened, use the products as quickly as possible.
5. Products that have not been used up must be vacuum sealed in plastic bag with desiccant.

# PRODUCT SPECIFICATION

<b>Part Number</b>	SWT0220	<b>Rev</b>	A1	<b>Date</b>	12/09/25		
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## Revision details:

Revision	Information	Page	Release Date
0.1	First draft	-	28/04/2025
A	First Release		30/04/2025
A1	Update operating force from 250±40gf to 250±50gf	1	12/09/2025