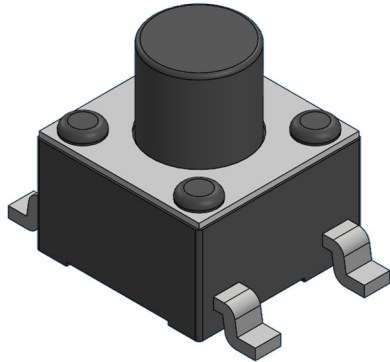


PRODUCT SPECIFICATION

Part Number	SWT0211			Rev	A		Date	30/04/25
Product Description	Tactile Switch, 4.5 X 4.5mm, Top Actuated, SMT, SPST – NO						Page	1
Doc Number	SWT0211	Prepared	CC	Checked	YR	Approved	PH	



Features:

Outline: 4.5 X 4.5mm

Profile height: 5.00mm

Actuated Orientation: Top Actuated

Lead Type: Gull Wing

Specification:

Material

Housing: PPA, Black

Button: PPA, Black

Terminal: Brass

Contact: Stainless Steel

Cover: SPCC

Plating

Terminal: Silver Plated

Contact: Silver Plated

Cover: Clear

Electrical

Voltage & Current Rating:

12V DC, 50mA Max.

1V DC, 10uA Min.

Contact Resistance: 500mΩ Max.

Dielectric Withstanding Voltage: 250V AC

Insulation Resistance: 100 MΩ Min

Mechanical & Environmental

Operating Temperature: -40°C to +85°C

Operating Force: 100±30gf

Travel: 0.18±0.10mm

Durability: 100,000 cycles

Solder Tails Co-planarity: 0.10mm Max.

Ordering Grid:

Ordering Grid

SWT0211 — 0500 10 G S A

Profile Height
0500 = 5.00mm

Operating Force
10 = 100±30gf

Lead Type
G = Gull Wing

Packing Options
A = Tape & Reel
(1500pcs per reel)

Contact Plating
S = Silver



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PRODUCT SPECIFICATION

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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 _{soak}	2-3 minutes
Time above 217°C	t ₁	60 s
Time above 230°C	t ₂	50 s
Time above 250°C	t ₃	3 s
Peak temperature in reflow	T _{peak}	255°C (–0/+5°C)
Temperature gradient in cooling		Max -5°C/s

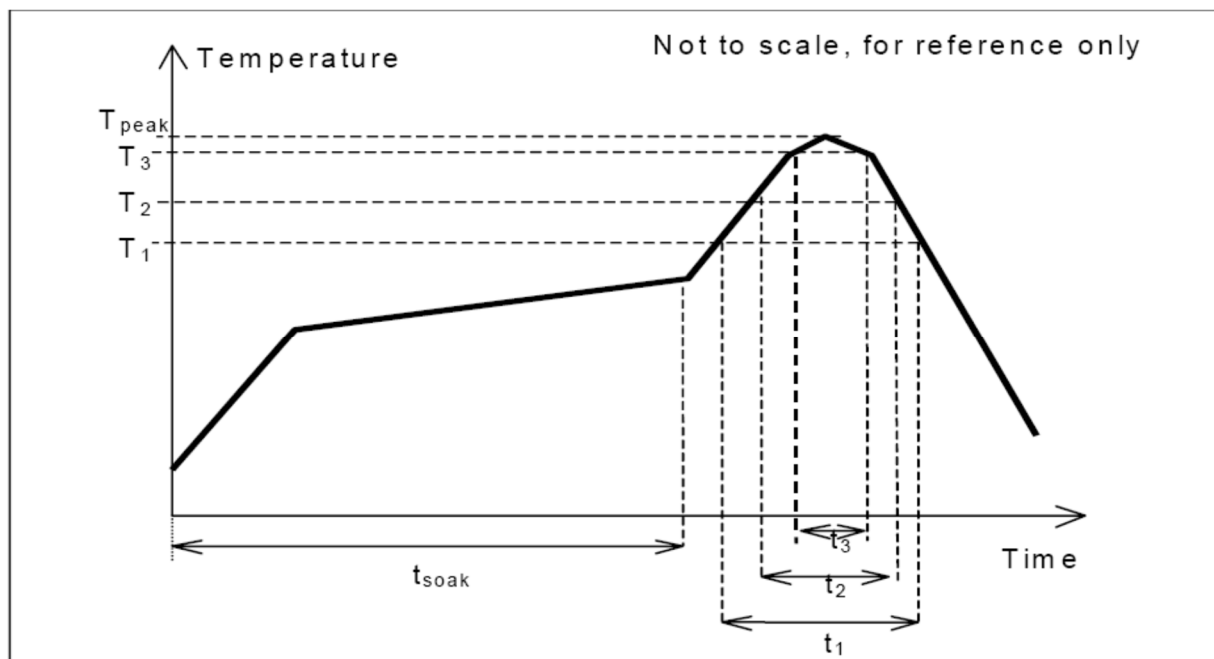


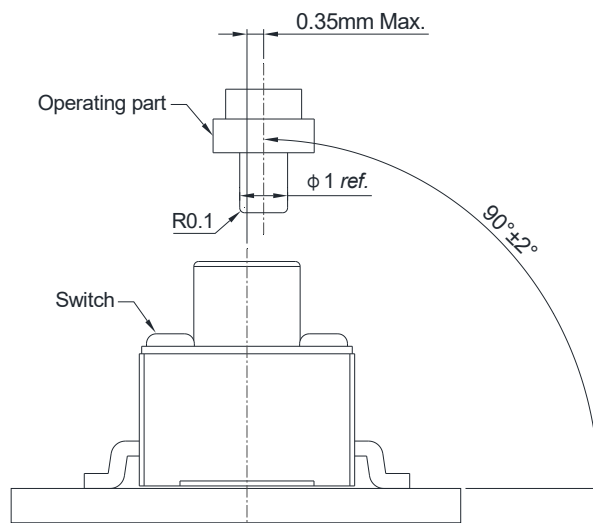
Fig. 1.0, this profile is the minimum requirement for evaluating soldering heat resistance of components. Heat transfer method used for reflow soldering is hot air convection. The actual air temperatures used to achieve the specified profile is higher and largely dependent on the reflow equipment.

PRODUCT SPECIFICATION

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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 ± 2 degrees.
3. Do not overload and shock the switch.
4. Avoid pressing on the film 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

Part Number	SWT0211			Rev	A		Date	30/04/25
Product Description	Tactile Switch, 4.5 X 4.5mm, Top Actuated, SMT, SPST – NO					Page	4	
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Revision details:

Revision	Information	Page	Release Date
0.1	First draft	-	28/04/2025
A	First Release		30/04/2025

