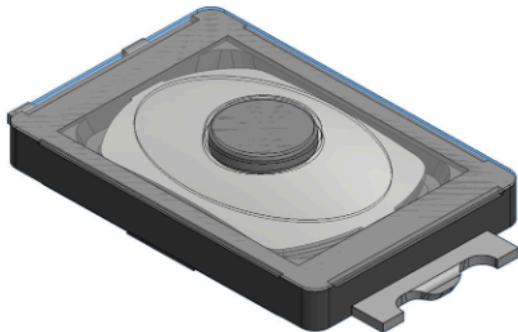


PRODUCT SPECIFICATION

Part Number	SWT7015	Rev	A	Date	30/04/25
Product Description	Tactile Switch, 3.0 X 2.0mm, Top Actuated, SMT, SPST – NO, IP67			Page	1
Doc Number	SWT7015	Prepared	CC	Checked	YR
				Approved	PH



Features:

Outline: 3.0 X 2.0mm

Profile height: 0.60mm

Actuated Orientation: Top Actuated

Lead Type: SMT

Specification:

Material

Housing: PPA, Black
Button: PA, Black
Terminal: Phosphor Bronze
Contact: Stainless Steel
Film: PA, Translucent

Plating

Terminal: Silver Plated
Contact: Silver Plated

Electrical

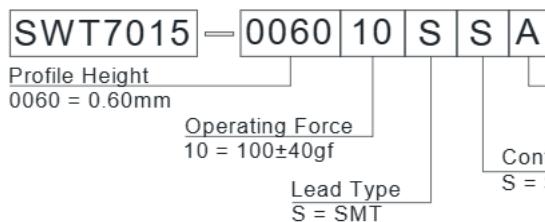
Voltage & Current Rating:
12V DC, 50mA Max.
2V DC, 10uA Min.
Contact Resistance: 500mΩ Max.
Dielectric Withstanding Voltage: 250V AC
Insulation Resistance: 50MΩ Min.

Mechanical & Environmental

Operating Temperature: -40°C to +85°C
Operating Force: 100±40gf
Travel: 0.15±0.05mm
Durability: 100,000 cycles
Ingress Protection Rating: IP67

Ordering Grid:

Ordering Grid



Packing Options
A = Tape & Reel
(10000pcs per reel)

Contact Plating
S = Silver



PRODUCT SPECIFICATION

Part Number	SWT7015	Rev	A	Date	30/04/25
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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	tsoak	2-3 minutes
Time above 217°C	t1	60 s
Time above 230°C	t2	50 s
Time above 250°C	t3	3 s
Peak temperature in reflow	Tpeak	255°C (-0/+5°C)
Temperature gradient in cooling		Max -5°C/s

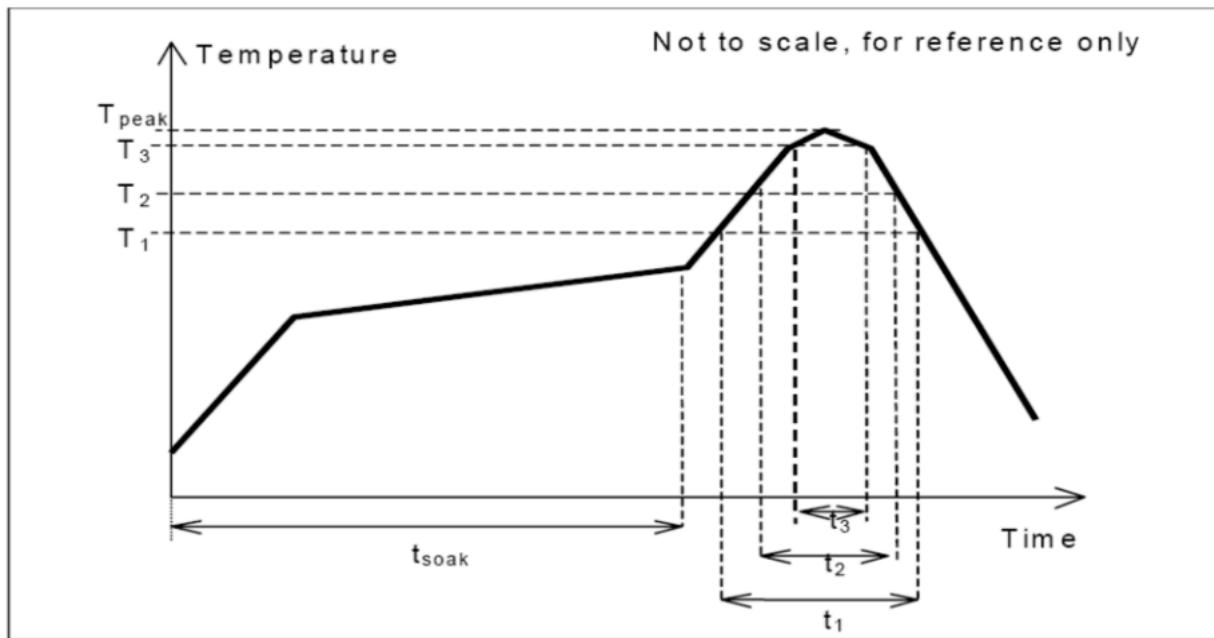


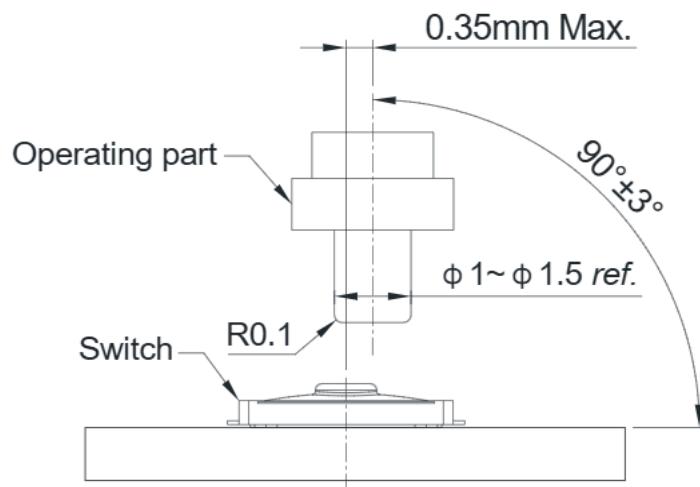
Fig. 1.0, this profile is the minimum requirement for evaluating soldering heat resistance of components. Heat transfer method used for reflow soldering is hot air convection. The actual air temperatures used to achieve the specified profile is higher and largely dependent on the reflow equipment.

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: $90^\circ \pm 3^\circ$ 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°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	SWT7015	Rev	A	Date	30/04/25
Product Description	Tactile Switch, 3.0 X 2.0mm, Top Actuated, SMT, SPST – NO, IP67			Page	4
Doc Number	SWT7015	Prepared	CC	Checked	YR

Revision details:

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

