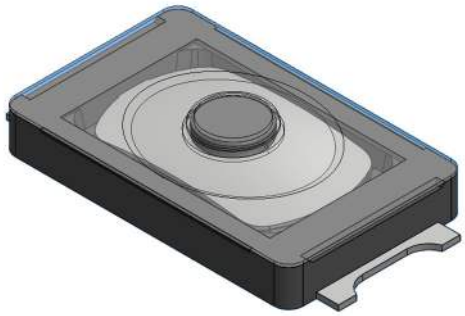
PRODUCT SPECIFICATION

Part Number	SWT7005		**Rev**	A		**Date**	30/04/25
Product Description	Tactile Switch, 2.6 X 1.6mm, Top Actuated, SMT, SPST – NO, IP67					**Page**	1
Doc Number	SWT7005	**Prepared**	CC	**Checked**	YR	**Approved**	PH



Features:

Outline: 2.6 X 1.6mm

Profile height: 0.55mm

Actuated Orientation: Top Actuated

Lead Type: SMT

Specification:

Material

Housing: PPA, Black

Button: PA, Black

Terminal: Phosphor Bronze

Contact: Stainless Steel

Film: PI, Translucent

Plating

Terminal: Silver Plated

Contact: Silver Plated

Electrical

Voltage rating: 12V DC

Current Rating: 50mA Max.

Contact Resistance: 100mΩ Max.

Dielectric Withstanding Voltage: 250V AC

Insulation Resistance: 50MΩ Min

Mechanical & Environmental

Operating Temperature: -40°C to +85°C

Operating Force: See Ordering Grid

Travel: 0.13±0.05mm

Durability: 500,000 cycles

Ingress Protection Rating: IP67

Solder Tails Co-planarity: 0.10mm Max.

Ordering Grid:

Ordering Grid

SWT7005 — 0055 XX S S A

Profile Height
0055 = 0.55mm

Operating Force
16 = 160±40gf
24 = 240±40gf

Lead Type
S = SMT

Contact Plating
S = Silver

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

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

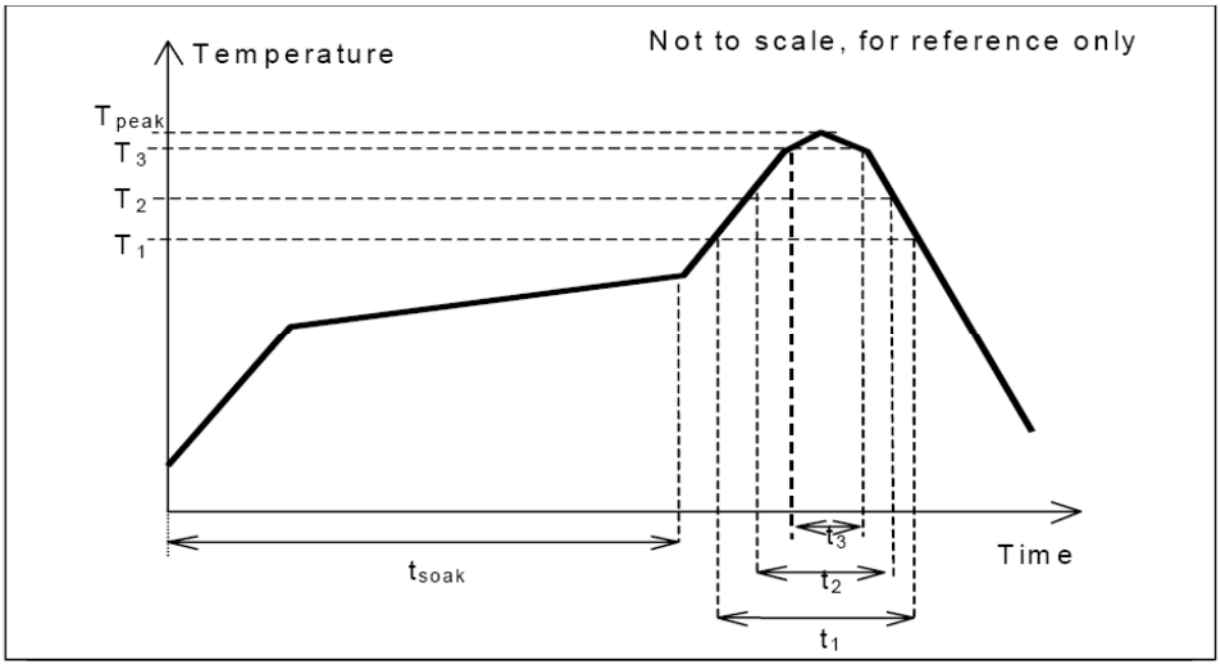


Fig. 1.0, this profile is the minimum requirement for evaluating soldering heat resistance of components. Heat transfer method used for reflow soldering is hot air convection. The actual air temperatures used to achieve the specified profile is higher and largely dependent on the reflow equipment.

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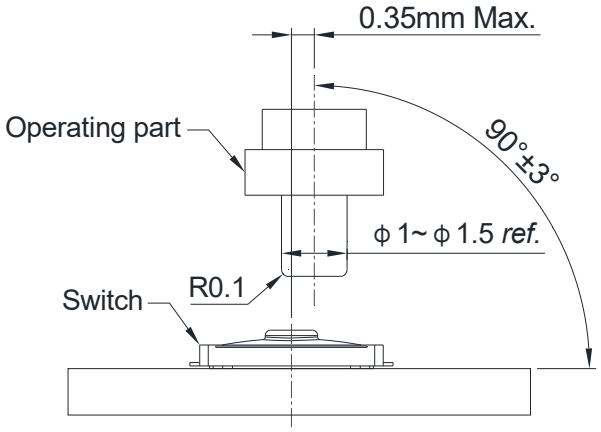
Precaution for Operating:

1. Deviation of operating part from the centre axis of the switch shall be within 0.35mm.
2. Allowable operating angle: 90 ±3 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.

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Revision details:

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