# **NanoT Series** The Most Compact Tactile Switch





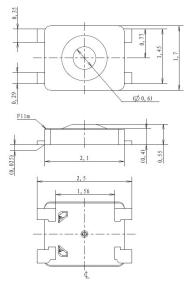
### **Specifications**

Function	Momentary action		
Contact Arrangement	1 make contact = SPST, NO		
Terminals	SMT / PIP		
Contact Material	Silver plated		

### **Electronic Characteristics**

0.3 VA DC	
15V	
20mA	
250Vrms	
500mΩ Max.	
On/Off 10ms Max.	

### **Top Actuated (AS Version)**



Notes: General Tolerance: ± 0.1mm



# **Description**

NanoT is a series of Ultra-miniature, low profile, waterproof tactile switches. Both top and side actuated options with SMT and PIP terminal available. The compact size of top actuated version just  $2.1 \times 1.65 \times 0.55$ mm, and side actuated version just  $2.2 \times 1.7 \times 1.7$ mm, make them the smallest tactile solution available in the market for sophisticated applications powered by smart wearables, portable medical devices as well as IoT devices.

# **Features & Benefits**

- Ultra Compact Size
- SMT or PIP versions
- IP67
- Long life cycles
- PFAS free
- PFAS free

## **Applications**

- Hearing Aids
- Headsets

- Laser welding technology
- PIP edge-mount for side actuated version allow excellent resistance to shear testing
- Sports Watch
- IoT portable device

### **Environmental Characteristics**

Operating Temperature	-40 to 85°C
Storage Temperature	-40 to 85°C

### Dimensions (mm)

# $\overbrace{F11m} (\bigcirc 0, 6)$ $\overbrace{f1, 6}^{+0, 15}$ $\overbrace{f2, 2}^{+0, 10}$ $\overbrace{f1, 6}^{+0, 10}$ $\overbrace{f2, 10}^{+0, 10}$

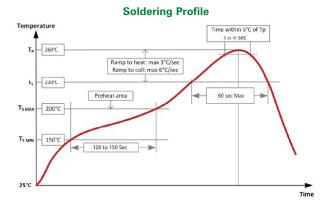
Side Actuated (BP Version)

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**E**Littelfuse **C**eK

Part Number	Style	Force (gf)	Life Cycles	Travel (mm)
NanoT 100 AS	Top Actuated with SMT termination	100 +40/-30	200,000	0.1 ± 0.05
NanoT 160 AS	Top Actuated with SMT termination	160 +/- 50	300,000	0.1 ± 0.05
NanoT 240 AS	Top Actuated with SMT termination	240 +/- 60	200,000	$0.1 \pm 0.05$
NanoT 100 BP	Side actuated with PIP* termination	100 +40/-30	200,000	$0.1 \pm 0.05$
NanoT 160 BP	Side actuated with PIP* termination	160 +/- 50	300,000	0.1 ± 0.05
NanoT 240 BP	Side actuated with PIP* termination	240 +/- 60	200,000	0.1 ± 0.05

Notes: 1. PIP: Pin in Paste also called Pin Through Paste.



T <sub>P</sub>	Peal package body Temperature
TL	Liquidous Temperature
Τ <sub>s</sub>	Preheat/Soak Temeprature
This component is suited to the following methods:	

Cleaning according to typical washing proc Lead free reflow soldering process in accor with 61760-1	esses
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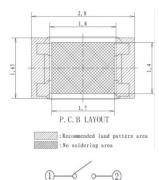
**Recommendation:** 

Sold

Number of reflow pass: 2 cycles The thickness of solder paste on the PCB board is  $0.08 \pm 0.01$ mm

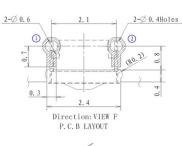
### Pad Layout Dimensions (mm)







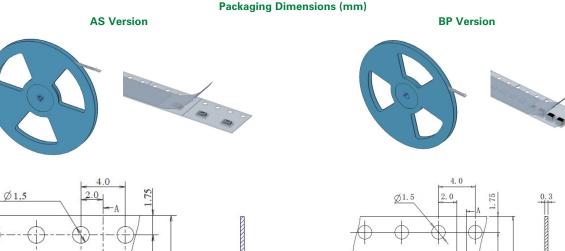
### **BP Version**

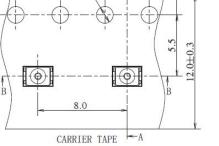


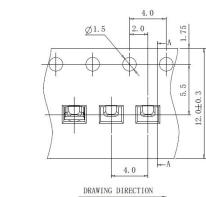
1)-

-(2)









SECTION A-A

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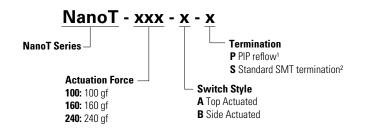
### **Packaging Details**

Series	AS	BP
Туре	Tape & Reel	Tape & Reel
Number of parts in packaging	8000	7500
Other information	EIS 481	EIS 481
Transport Conditions	According to specification NF H00-060	According to specification NF H00-060

### **Ordering Number**

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category. For any part number different from those listed below, please consult your local representative.

SECTION A-A



Notes:

1. P termination for side version only

 ${\bf 2.}~{\rm S}$  termination for top version only

### **Liability Limitation**

This datasheet does not provide enough information for applications that require a certain level of quality or safety such as automotive, medical systems, or safety equipement. Please contact customer service for the contractual specification package.

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