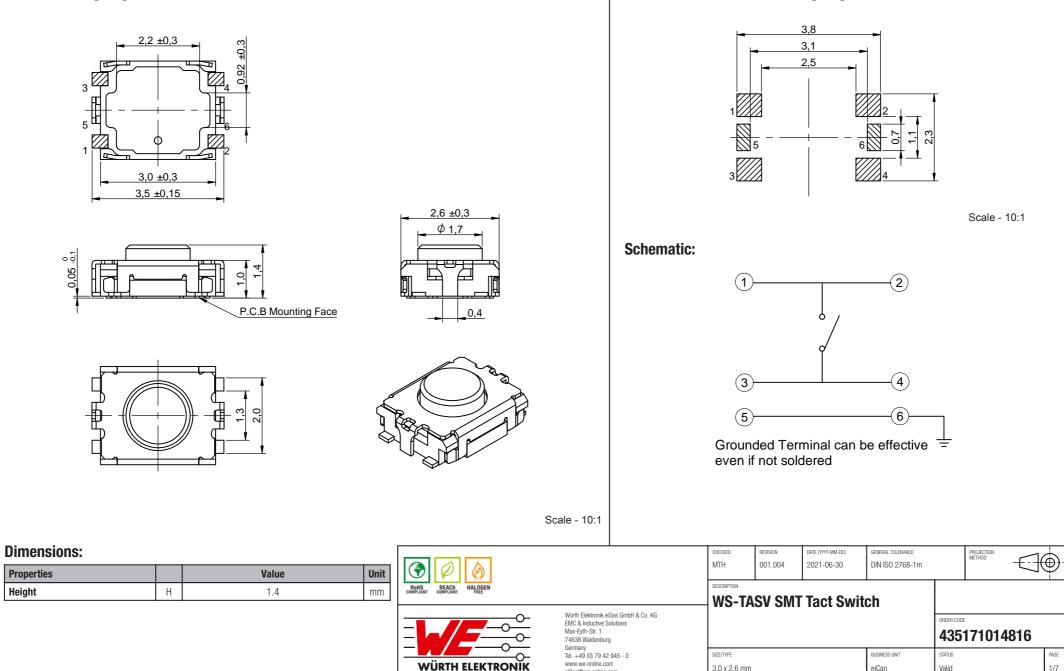
Dimensions: [mm]



Recommended Land Pattern: [mm]

3.0 x 2.6 mm

eiCan

Valid

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This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik elSos GmbH & Co KG products are nethiner designed nor intended for use agreement specifically governing such as a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such as a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such as a higher safety standard in (automotive control, train control, ship control), train control, t

eiSos@we-online.com

WÜRTH ELEKTRONIK

Material Properties:

O	
Cover Material	Stainless Steel
Cover Plating	Tin
Actuator Material	LCP
Actuator Flammability Rating	UL94 V-0
Actuator Color	Black
Frame Material	LCP
Frame Flammability Rating	UL94 V-0
Frame Color	Black
Contact Material	Stainless Steel
Contact Plating	Silver
Terminal Material	Copper Alloy
Terminal Plating	Silver
Tape Material	Polyimide

Mechanical Properties:

L	•				
	Properties	Test conditions	Value	Unit	Tol.
	Stroke		0.15	mm	±0.1mm

¹⁾ Cycle - Return to the original position

General Information:

Operating Temperature	-40 up to +85 °C
Storage Conditions (in original packaging)	< 40 °C;< 75 % RH
Moisture Sensitivity Level (MSL)	1
Washable	No

Certification:

	RoHS Approval	Compliant [2011/65/EU&2015/863]		
REACh Approval Conform or declared [(EC)1907/2006]				
	Halogen Free	Conform [IEC 61249-2-21]		
	Halogen Free	Conform [JEDEC JS709B]		

Electrical Properties:

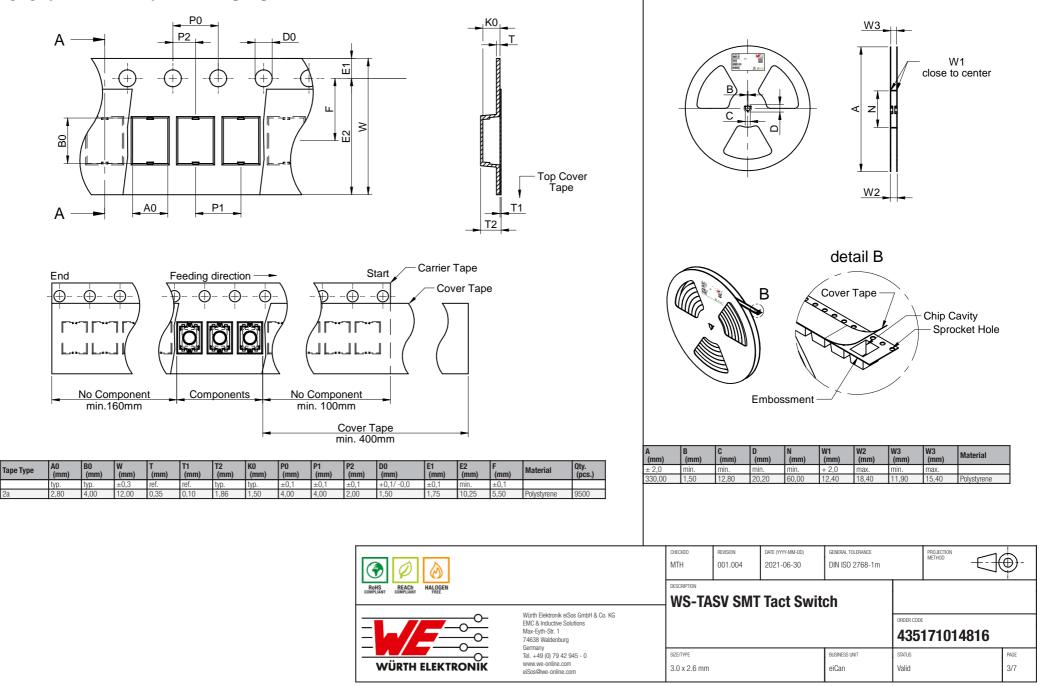
Properties		Test conditions	Value	Unit	Tol.
Rated Current	I _R		50	mA	
Rated Voltage	V _R		12	V (DC)	
Contact Resistance Initial	R		100	mΩ	max.
Contact Resistance After Life Test	R		2	Ω	max.
Insulation Resistance	R _{ISO}	500 V (DC)	100	MΩ	min.
Withstanding Voltage		1 min	250	V (AC)	
Bounce			10	ms	max.

Mechanical Properties:

Properties	Test conditions	Value	Unit	Tol.
Operation Force		160	g	±50g
Electrical Life ¹⁾	50 mA/ 12 V (DC)	500000	Cycles	

		CHECKED MTH	REVISION 001.004	DATE (YYYY-MM-DD) 2021-06-30	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	-
ROHS REACH HALOGEN		- WS-TA	WS-TASV SMT Tact Switch					
Würth Elektronik eiSos GmbH & Co. KG ENC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg						ORDER CODE	171014816	
	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	SIZE/TYPE 3.0 x 2.6 mm			BUSINESS UNIT eiCan	status Valid		page 2/7

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Wirth Elektronik elSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nucleac protocil, trainsportation (automotive control, trainsportation signal, disaster prevention, medical, public information network etc... Wurth Elektronik elSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in leaftraical inclusions or performance. Packaging Specification - Tape and Reel: [mm]



This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Warth Elektronik elSos GmbH & Co Kg products are netliner designed nor intended for use in equipment which is used in elevation intended for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use, Moreover Warth Elektronik elSos GmbH & Co KG must be informed on every electronic component which is used in elevatival crucial the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every elevationic component which is used in elevatival crucial that require high astel elevatival require high astel elevatival to cause elevatival elevatival that and the elevatival elev

Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value	
Preheat Temperature Min	T _{s min}	150 °C	
Preheat Temperature Max	T _{s max}	200 °C	
Preheat Time $\rm t_s$ from $\rm T_{s\ min}$ to $\rm T_{s\ max}$	t _s	60 - 120 seconds	
Ramp-up Rate (T _L to T _P)		3 °C/ second max.	
Liquidous Temperature	TL	217 °C	
Time t_L maintained above T_L	tL	60 - 150 seconds	
Peak package body temperature	Т _р	$T_p \le T_c$, see Table below	
Time within 5°C of actual peak temperature	t _p	20 - 30 seconds	
Ramp-down Rate (T _P to T _L)		6 °C/ second max.	
Time 25°C to peak temperature		8 minutes max.	
		•	

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature (T_c):

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000			
PB-Free Assembly I Package Thickness < 1.6 mm	260 °C	260 °C	260 °C			
PB-Free Assembly I Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C			
PB-Free Assembly Package Thickness > 2.5 mm	250 °C	245 °C	245 °C			
Applied cycles	Only 2 times reflow possible.					

refer to IPC/ JEDEC J-STD-020E

		CHECKED MTH	REVISION 001.004	DATE (YYYY-MM-DD) 2021-06-30	GENERAL TOLERANCE DIN ISO 2768-1m			-
CONFLIANT REACT: HALDGEN Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Pth-Str. 1				Tact Swit	ch			
		_ ₩3-1	134 21411	Idet Swit	GII	ORDER CODE	71014816	
	74638 Waldenburg Germany	SIZE/TYPE			BUSINESS UNIT	4JJ STATUS	1/1014010	PAGE
	Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		3.0 x 2.6 mm		eiCan Valid			4/7

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik elSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability valuation checks for safety must be produced on expected on cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik elSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability valuation checks for safety must be produced on expected controlic component which is used in the relatival or cause. All the relatival or cause exerces and and reliability standard is especially equivalent on expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such uses the formation network etc. Würth Elektronik elSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability to control, train cont

Cautions and Warnings:

The following conditions apply to all goods within the product series of Tact switch of Würth Elektronik eiSos GmbH & Co. KG:

General:

- This mechanical component is designed and manufactured for use in general electronic equipment.
- Würth Elektronik must be asked for written approval (following the PPAP procedure) before incorporating the components into any
 equipment in fields such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control,
 ship control), transportation signal, disaster prevention, medical, public information network, etc. where higher safety and reliability are
 especially required and/or if there is the possibility of direct damage or human injury.
- Mechanical components that will be used in safety-critical or high-reliability applications, should be pre-evaluated by the customer.
- The component is designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions
 specified in the datasheet are not met, the wire insulation may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged.
- Prevent any damage or scratches on the switch, especially on the actuator.
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth
 Elektronik does not warrant any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and
 sustainability over time.
- The responsibility for the applicability of the customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products also apply to customer specific products.

Product Specific:

Soldering:

- The solder profile must comply with the technical product specifications. All other profiles will void the warranty.
- All other soldering methods are at the customers' own risk.
- Please keep our switch at delivery original position before and during the soldering process.
- Design the right angle part with consideration of the wave soldering process so that the parts will not touch the soldering wave during the soldering process or protect the switch part with cover fixture. Melting of the switch might cause malfunction.

Cleaning and Washing:

If a series is washable, the general information section in the datasheet will contain the washability guidelines. Should there be no
information regarding washability, the product has not been constructed to withstand a washing process. Washing agents used during
the production to clean the customer application might damage or change the characteristics of the component, body, pins and/or
termination. Washing agents may have a negative effect on the long-term functionality of the product.

If the parts are washable, hermetic:

- Cleaning agents that are used to clean the customer applications may damage or change the characteristics of the component, body, pins and termination.
- Please do not immerse any washable products into water or cleaning agents or put them in locations exposed to water completely.
- Do not clean washable series immediately after soldering. The cleaning agent may be absorbed into the switch through respiration while the switch cools.
- Please do not press actuator or change status /position during the cleaning and washing process.
- Using a brush during the cleaning process may deform function relevant areas. Therefore, we do not recommend using a brush during the PCB cleaning process.

Potting and Coating:

• If the product is potted in the customer application, the potting material may shrink or expand during and after hardening. Shrinking could lead to an incomplete seal, allowing contaminants into the body, pins or termination. Expansion could damage the components. We recommend a manual inspection after potting or coating to avoid these effects.

Storage Conditions:

- A storage of Würth Elektronik products for longer than 12 months is not recommended. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components to direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- For a moisture sensitive component, the storage condition in the original packaging is defined according to IPC/JEDEC-J-STD-033. It is also recommended to return the component to the original moisture proof bag and reseal the moisture proof bag again.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time of the components.

Packaging:

• The packaging specifications apply only to purchase orders comprising whole packaging units. If the ordered quantity exceeds or is lower than the specified packaging unit, packaging in accordance with the packaging specifications cannot be ensured.

Handling:

- In the case a product requires particular handling precautions, in addition to the general recommendations mentioned here below, these
 will appear on the product datasheet.
- Do not repeatedly operate the switch with excessive force. It may damage or deform the switch resulting in malfunction.
- Please set up the switch in such a way that the actuator will operate in a straight vertical line. A decrease in the lifetime of the switch may result if the actuator is pressed off-center or from an angle. This might cause function errors or broken actuators, especially for heights over 7.0 mm.

		CHECKED MTH	REVISION 001.004	DATE (YYYY-MM-DD) 2021-06-30	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	$-\Box ($	€-
RefEr HALOGEN Wirth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max Eyth Str. 1 74638 Waldenburg		DESCRIPTION	SV SMT	Tact Swit	ch				
						ORDER CODE	1710148	316	
	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	SIZE/TYPE 3.0 x 2.6 mm			BUSINESS UNIT eiCan	status Valid		1	page 5/7

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik elSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability valuation checks for safety must be partient or every electronic component which is used in electrical circuits that require high safety and reliability valuation checks for safety must be partient or every electrical circuits that require high safety and reliability to estimate.

• The temperature rise of the component must be taken into consideration. The operating temperature is comprised of ambient temperature and temperature rise of the component. The operating temperature of the component shall not exceed the maximum temperature specified.

These cautions and warnings comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable. However, no responsibility is assumed for inaccuracies or incompleteness.

		CHECKED	REVISION 001.004	DATE (YYYY-MM-DD) 2021-06-30	GENERAL TOLERANCE DIN ISO 2768-1m				
Rohs REACH HALOGEN		WS-TASV SMT Tact Switch							
	Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg					ORDER CODE	17101481	6	
	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 3.0 x 2.6 mm			BUSINESS UNIT eiCan	status Valid		PAGE 6/7	

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Important Notes

The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications

It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications. In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component. Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter.

5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected.

6. Product Life Cycle

Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered. The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

7. Property Rights

All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms and Conditions of Würth Elektronik eiSos Group", last version available at www.we-online.com.

		CHECKED MTH	REVISION 001.004	DATE (YYYY-MM-DD) 2021-06-30	GENERAL TOLERANCE DIN ISO 2768-1 m		PROJECTION METHOD		€-
ROHS REACH HALOGEN		WS-TASV SMT Tact Switch							
	Würft Elektronik elöse GmbH & Co. KG EMC & Inductive Solutions Max-Pyth-Str. 1 74638 Waldenburg Germany Tel. +49 (D) 79 42 945 - 0 www.we-online.com elSos@we-online.com					ORDER CODE 435171014816			
		szertype 3.0 x 2.6 mm			BUSINESS UNIT eiCan	status Valid			PAGE 7/7

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