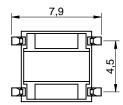
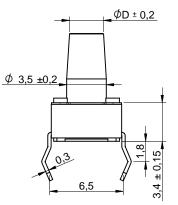
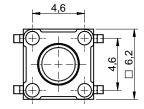
# **Dimensions:** [mm]







max. 0,15 0,5 +1 т 0,7  $3,5 \pm 0,2$ 

G

RoHS COMPLIANT

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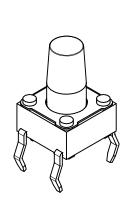
HALOGEN

WÜRTH

ELEKTRONIK

MORE THAN YOU EXPECT

REACh COMPLIANT



Scale - 3:1

Würth Elektronik eiSos GmbH & Co. KG

EMC & Inductive Solutions

Tel. +49 (0) 79 42 945 - 0 www.we-online.com

eiSos@we-online.com

Max-Eyth-Str. 1

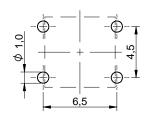
Germany

74638 Waldenburg

## **Dimensions:**

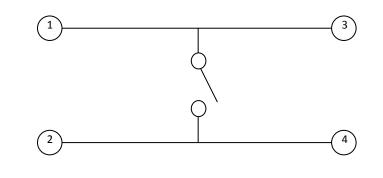
Properties		Value	Unit
Height	Н	7	mm
Diameter	ØD	3	mm

**Recommended Hole Pattern: [mm]** 



Scale - 3:1

## **Schematic:**



CHECKED DATE (YYYY-MM-DD) GENERAL TOLERANCE PROJECTION METHOD REVISION Ð ELin 004.001 2022-03-02 DIN ISO 2768-1m DESCRIPTION **WS-TATV THT Tact Switch** ORDER CODE 430156070726 SIZE/TYPE BUSINESS UNIT STATUS PAGE 6 x 6 mm eiCan Valid 1/8

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 rel

## **Material Properties:**

•	
Cover Material	Stainless Steel
Actuator Material	LCP
Actuator Flammability Rating	UL94 V-0
Actuator Color	White
Frame Material	РРА
Frame Flammability Rating	UL94 V-0
Frame Color	Black
Contact Material	Stainless Steel
Contact Plating	Silver
Terminal Material	Copper Alloy
Terminal Plating	Silver

# **Electrical Properties:**

Properties		Test conditions	Value	Unit	Tol.
Rated Current	I <sub>R</sub>		50	mA	
Rated Voltage	V <sub>R</sub>		12	V (DC)	
Contact Resistance Initial	R		100	mΩ	max.
Contact Resistance After Life Test	R		2	Ω	max.
Insulation Resistance	R <sub>ISO</sub>	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		260	g	±50g
Electrical Life <sup>1)</sup>	50 mA/ 12 V (DC)	200000	Cycles	
Stroke		0.25	mm	+0.2mm/-0.1mm

<sup>1)</sup> Cycle - Return to the original position

# **General Information:**

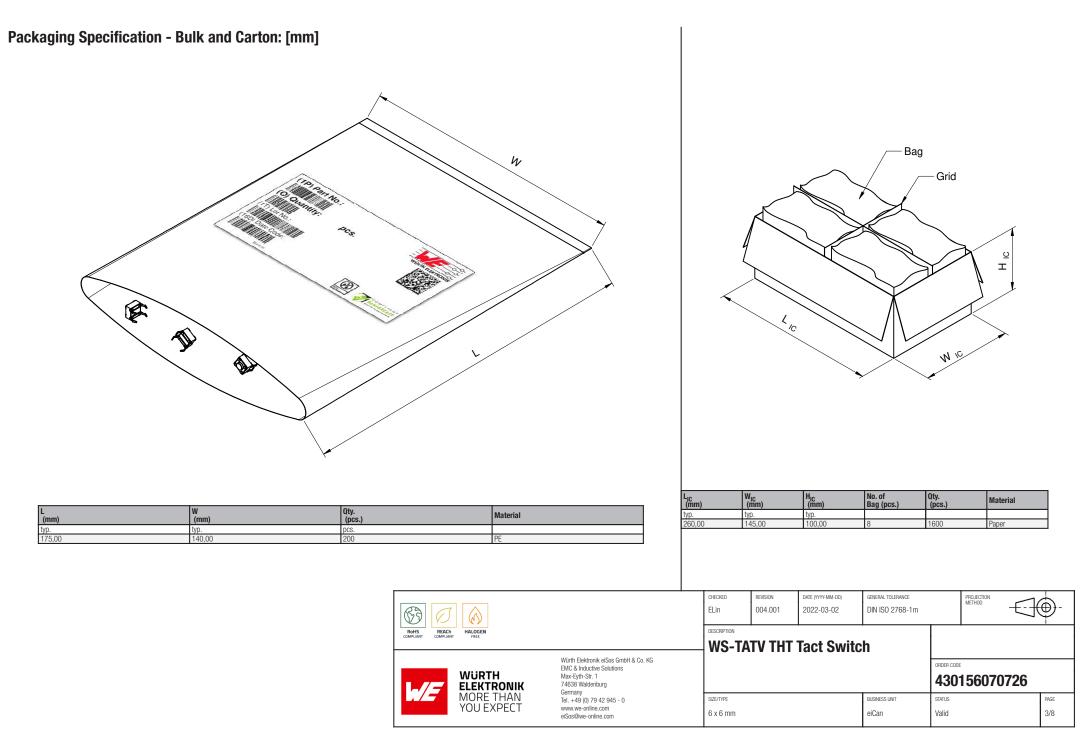
Operating Temperature	-40 up to +85 °C
Storage Conditions (in original packaging)	< 40 °C; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Washable	No

## **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]

		ELin	REVISION 004.001	DATE (YYYY-MM-DD) 2022-03-02	general tolerance DIN ISO 2768-1m		PROJECTION METHOD	30	Ð-
		WS-TATV THT Tact Switch							
	ELEKTRONIK 74638 Waldenburg					ORDER CODE	15607072	6	
MORE THAN YOU EXPECT	Germany Tel 49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com	size/type 6 x 6 mm			BUSINESS UNIT eiCan	status Valid		1	page 2/8

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 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 must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety restriction. Quipment of were leactrical cruited because severe personal injury or death, unless the parties have executed an agreement specifically governing 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 the require injury and reliability evaluation checks for safety must be performed on every electronic component which is used in the require injury and reliability evaluation checks for safety must be performed on every electronic component which is used in the require injury and reliability evaluation checks for safety must be performed on every electronic component which is used in the relatival injury of eath in the reliability of eath in the reliability evaluation checks for safety must be performed on every electronic component which is used in the reliability of eath in



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Image: No. of time Carton (pcs.)       Oy.       Material         475.00       270.00       225.00       6       960       Paper	No No	
RoHS     REACT     HALOGEN       ROHS     REACT     HALOGEN       Würth Elektronik elSos GmbH & Co. KG     WS-TATV THT Tact Switch	typ. typ.	
	Redes COMPLIANT REACK COMPLIANT REACK R	ELin         004.001         2022-03-02         DIN ISO 2768-1m           DESCRIPTION         WS-TATV THT Tact Switch         ORDER CODE

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## **Classification Wave Soldering Profile:**



---- max temperature procedure

# **Classification Wave Soldering Profile:**

Profile Feature		Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	T <sub>s min</sub>	100 °C	100 °C
Preheat Temperature Typical	T <sub>s typical</sub>	120 °C	120 °C
Preheat Temperature Max	T <sub>s max</sub>	130 °C	130 °C
Preheat Time $\rm t_s$ from $\rm T_{smin}$ to $\rm T_{smax}$	t <sub>s</sub>	70 seconds	70 seconds
Ramp-up Rate	ΔT	150 °C max.	150 °C max.
Peak Temperature	Т <sub>р</sub>	250 °C - 260 °C	235 °C - 260 °C
Time of actual peak temperature	tp	max. 10 seconds max. 5 seconds each wave	max. 10 seconds max. 5 seconds each wave
Ramp-down Rate, Min		~ 2 K/ second	~ 2 K/ second
Ramp-down Rate, Typical		~ 3.5 K/ second	~ 3.5 K/ second
Ramp-down Rate, Max		~ 5 K/ second	~ 5 K/ second
Time 25 °C to 25 °C		4 minutes	4 minutes

refer to EN61760-1:2006

B 7 6			CHECKED	REVISION 004.001	DATE (YYYY-MM+DD) 2022-03-02	general tolerance DIN ISO 2768-1m		PROJECTION METHOD	<b>-</b>	
ROHS REACH HALOGEN COMPLIANT COMPLIANT FREE			WS-TATV THT Tact Switch							
WÜRTHBAKTONIK BISAS GIMON & Co. KG EMC & Inductive Solutions & Co. KG Mar.Epth-Str. 1 74638 Waldenburg Germany						ORDER CODE	156070726			
MOI	RE THAN J EXPECT	Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	SIZE/TYPE 6 x 6 mm			BUSINESS UNIT eiCan	status Valid		PAGE 5/8	

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 rel

# **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	REVISION 004.001	DATE (YYYY-MM-DD) 2022-03-02	general tolerance DIN ISO 2768-1m		PROJECTION METHOD	<b>-</b>		
	RoHS REACH HALOGEN COMPLIANT COMPLIANT FREE		WS-TATV THT Tact Switch							
	Würth Elektronik eißos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany		EMC & Inductive Solutions Max-Eyth-Str. 1					ORDER CODE	156070726	
		MORE THAN YOU EXPECT	Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 6 x 6 mm			BUSINESS UNIT eiCan	status Valid		PAGE 6/8

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 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 004.001	DATE (YYYY-MM-DD) 2022-03-02	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	<b>_</b> -
			WS-TATV THT Tact Switch						·
		Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany					ORDER CODE	156070726	
	MORE THAN YOU EXPECT	Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 6 x 6 mm			BUSINESS UNIT eiCan	status Valid		PAGE 7/8

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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 ELin	revision 004.001	DATE (YYYY-MM-DD) 2022-03-02	GENERAL TOLERANCE DIN ISO 2768-1m	_		3@	₽-
				WS-TATV THT Tact Switch							
	L/F	WURTH ELEKTRONIK	Wurth Elektronik eiSos GrnbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com					ORDER CODE	156070726	;	
		MORE THAN YOU EXPECT		SIZETYPE 6 x 6 mm		BUSINESS UNIT eiCan	status Valid			page 8/8	

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