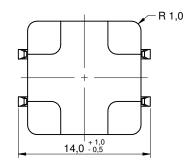
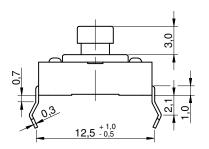
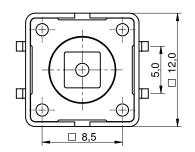
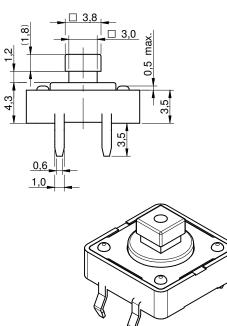
Dimensions: [mm]

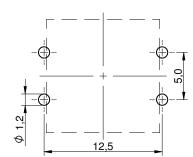






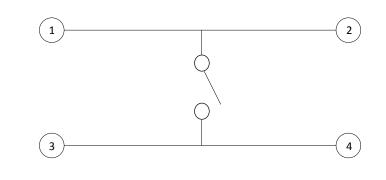


Recommended Hole Pattern: [mm]



Scale - 2,5:1

Schematic:



Scale - 2,5:1

Dimensions:

Properties		Value	Unit		2
Height	Н	7.3	mm	RoH: COMPLIA	5 Ant



CHECKED	REVISION	DATE (YYYY-MM-DD)	GENERAL TOLERANCE		PROJECTION		Ú)
MTH	001.001	2019-01-02	DIN ISO 2768-1m	_	WEITOD	+-+(₽-
DESCRIPTION							
WS-TATV THT washable							
				ORDER CODE			
				4304	456073	736	
SIZE/TYPE			BUSINESS UNIT	STATUS			PAGE
12 x 12 mm			eiCan	Valid			1/7

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 rel

Material Properties:

Stainless Steel
LCP
UL94 V-0
Salmon
PA9T
UL94 V-0
Black
Stainless Steel
Silver
Copper Alloy
Silver
Polyimide

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Rated Current	I _R		50	mA	
Rated Voltage	U _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	Value	Unit	Tol.
Operation Force	360	g	±90g
Life Cycle	200000	Times	
Stroke	0.3	mm	±0.1mm

General Information:

Operating Temperature	-40 up to +85 °C
Storage Conditions (in origi packaging)	nal < 40 °C ; < 75 % RH
Moisture Sensitivity Level (I	III
Washable	Yes

Packaging Properties:

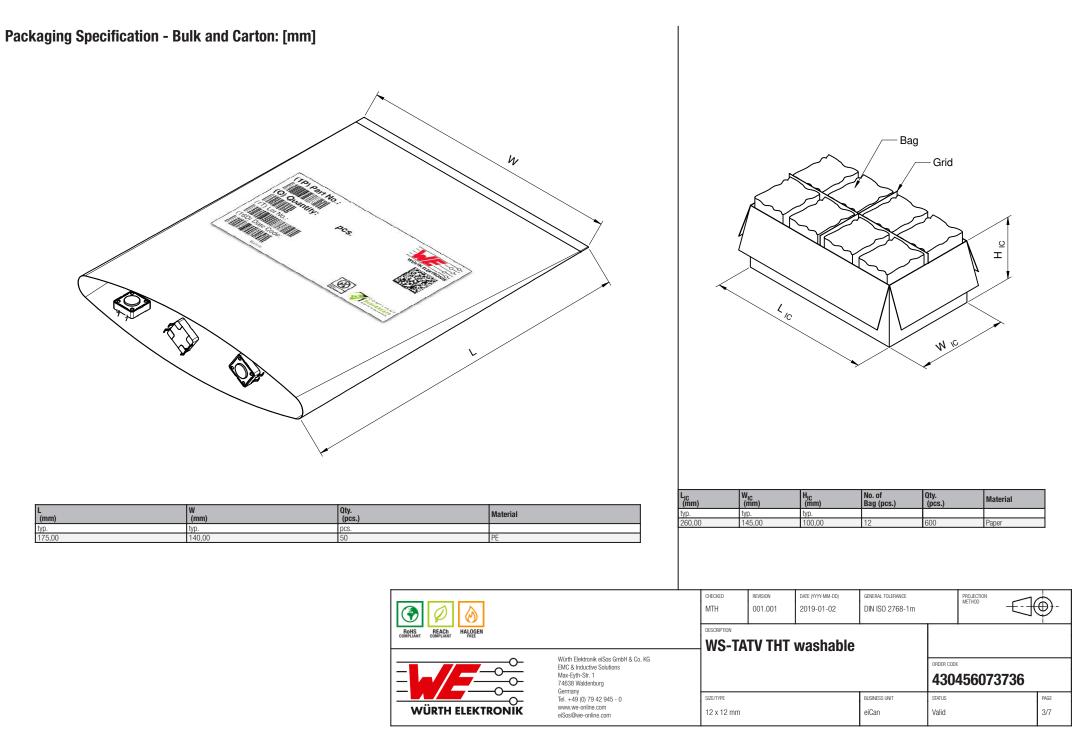
Properties		Value			
Packaging	Bulk				
Packaging Unit	Qty.	50			

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 709B]					

		CHECKED	REVISION 001.001	DATE (YYYY-MM-DD) 2019-01-02	GENERAL TOLERANCE DIN ISO 2768-1m	PF		⊕-
ROHS REACH HALDGEN		WS-TA	TV THT	washable	-			
Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg						ORDER CODE	56073736	
	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com	SIZE/TYPE 12 x 12 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 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 must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektronik elSos GmbH & Co KG must be information network etc.. Worth Elektr

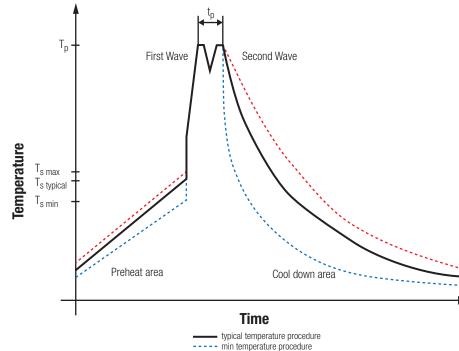


This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard and rel

LC (mm)WC (mm)HC (mm)No. of Inner Carton (pcs.)Qty. (pcs.)Materialtyp.typ.typ.475,00270,00225,0063600Paper	
Reft Reft Haldgen Würth Elektronik elSos GmbH & Co. KG EWC & Inductive Solutions Max-Physics 74638 Waldenburg Germany Tel-ktronik WÜrth Elektronik 74638 Waldenburg Germany Tel-ktronik Würth Elektronik 74638 Waldenburg Germany Tel-ktronik Würth Elektronik 00 (0) 79 42 945 - 0 Www.we-online.com elsos Gwe-online.com	CHECKED MTH REVISION 001.001 DATE (YYYY-MM-DD) 2019-01-02 GENERAL TOLERANCE DIN ISO 2768-1m PROJECTION DESCRIPTION USECRIPTION USECRIPTION USECRIPTION USECRIPTION VSS-TATV THT washable ORDER CODE 001001 ORDER CODE SZE/TYPE BUSINESS UNIT STATUS PRGE 12 x 12 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 and reliability 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 Würth Elektronik elSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), train control, signal, disaster prevention, medical, public information 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 evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

Classification Wave Soldering Profile:

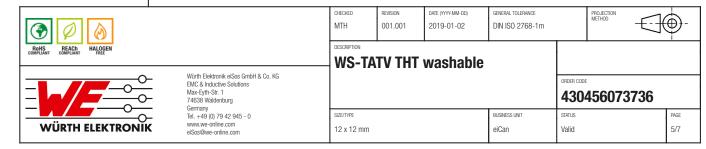


---- max temperature procedure

Classification Wave Soldering Profile:

Profile Feature		Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min ¹⁾	T _{s min}	100 °C	100 °C
Preheat Temperature Typical	T _{s typical}	120 °C	120 °C
Preheat Temperature Max	T _{s max}	130 °C	130 °C
Preheat Time t_s from $T_{s min}$ to $T_{s max}$	t _s	70 seconds	70 seconds
Ramp-up Rate	ΔT	150 °C max.	150 °C max.
Peak Temperature	Т _р	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

¹⁾ refer to EN61760-1:2006 refer to EN61760-1:2006



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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 switch, pins or termination may be damaged or dissolved.
- Do not drop or impact the components, as the switch, pins or termination may flake apart.
- 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 Würth Elektronik technical soldering specification. All other profiles will void the warranty.
- A maximum of two reflow cycles are recommended
- All other soldering methods are at the customers' own risk.

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 body, pins or
termination. 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.

Handling:

- 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.
- 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.
- In the case a product requires particular handling precautions in addition to those mentioned in this text, these will appear on the
 product datasheet.

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 001.001	DATE (YYYY-MM-DD) 2019-01-02	GENERAL TOLERANCE DIN ISO 2768-1m	_	PROJECTION METHOD		€-
ROHS COMPLIANT PREED		DESCRIPTION	TV THT	washable	-				
	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany					ORDER CODE	45607373	36	
	el. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com	size/type 12 x 12 mm			BUSINESS UNIT eiCan	status Valid		1	page 6/7

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 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 on every electronic component which is used in entential tracium signal, advantine, transportation (automotive control, train control, ship control), train control, ship control, train control, train control, train control, ship control, train control, ship control, train control, trai

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	REVISION 001.001	DATE (YYYY-MM-DD) 2019-01-02	GENERAL TOLERANCE DIN ISO 2768-1m	-	PROJECTION METHOD	-	
		WS-TATV THT washable							
	Würth Elektronik elsos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com						ORDER CODE 430456073736		
		SIZE/TYPE 12 x 12 mm				status PAGE Valid 7/7			

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