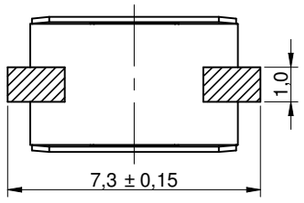
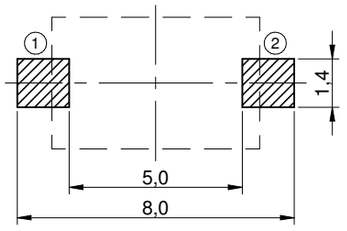
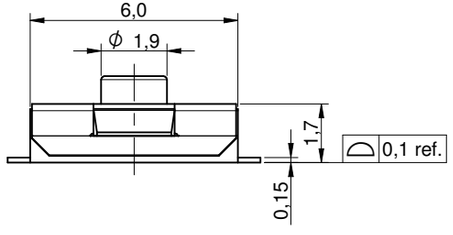
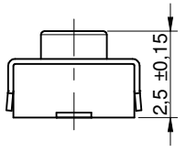
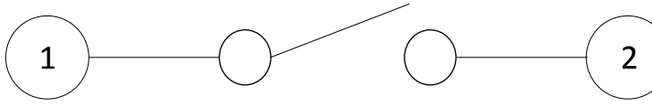


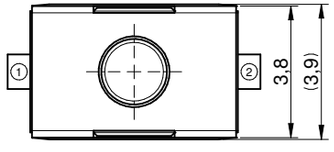


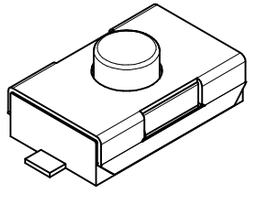




Schematic:







Dimensions:

Properties		Value	Unit
Height	H	2.5	mm

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ICH	001.001	2019-01-02	DIN ISO 2768-1m	

DESCRIPTION
WS-TASV SMT Tact Switch

ORDER CODE
4341210

SIZE/TYPE	BUSINESS UNIT	STATUS
6.0 x 3.8 mm	eiCan	Valid

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

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		1	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	160	g	±50g
Life Cycle	50000	Times	
Stroke	0.25	mm	±0.1mm

packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Washable	No

Packaging Properties:

Properties		Value
Packaging		Tape and Reel
Packaging Unit	Qty.	3000

Certification:

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

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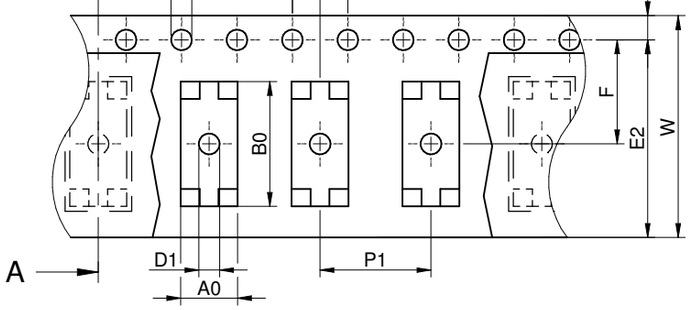
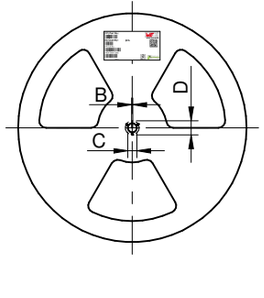
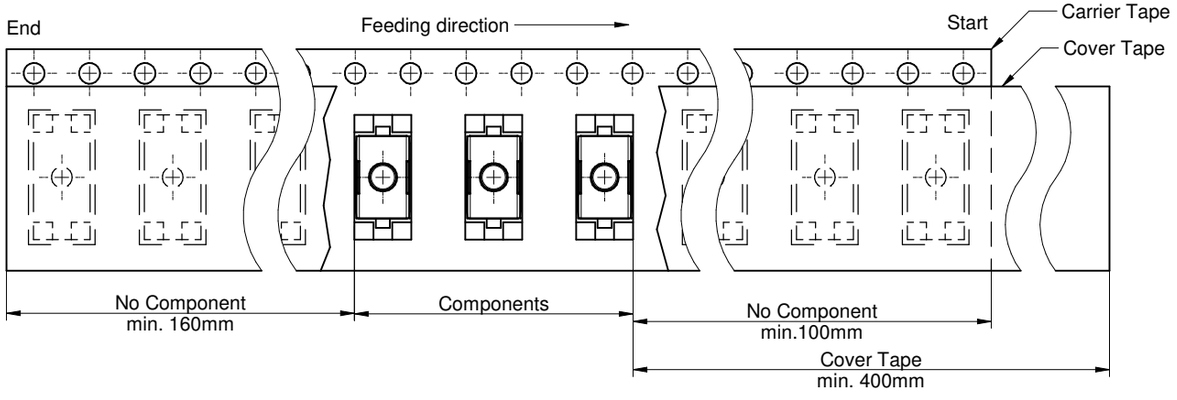
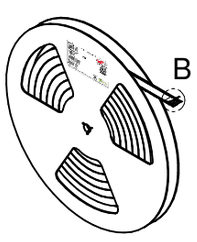
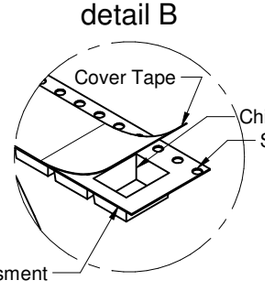






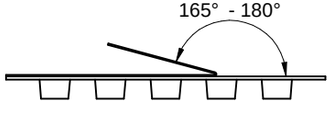




A (mm)	B (mm)	C (mm)	D (mm)	N (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W3 (mm)	Material
± 2,0	min.	min.	min.	min.	+ 2,0	max.	min.	max.	
330,00	1,50	12,80	20,20	60,00	16,40	22,40	15,90	19,40	Polystyrene/ Po

Packaging is reffered to the international standard **IEC 60286-3:2013**

A0	B0	W	T	T1	T2	K0	P0	P1	P2	D0	D1	E1	E2	F	Tape Type 2a	VPE / packaging unit
typ.	typ.	±0,3	max.	max.	typ.	typ.	±0,1	±0,1	±0,05	+0,1/ -0,0	min.	±0,1	min.	±0,05		pcs.
4,10	9,00	16,00	0,60	0,10	3,15	2,70	4,00	8,00	2,00	1,50	1,50	1,75	14,25	7,50	Polystyrene	3000



		Pull-of force
Tape width	16 mm	0,1 N - 1,3 N

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DESCRIPTION
WS-TASV SMT Tact Switch

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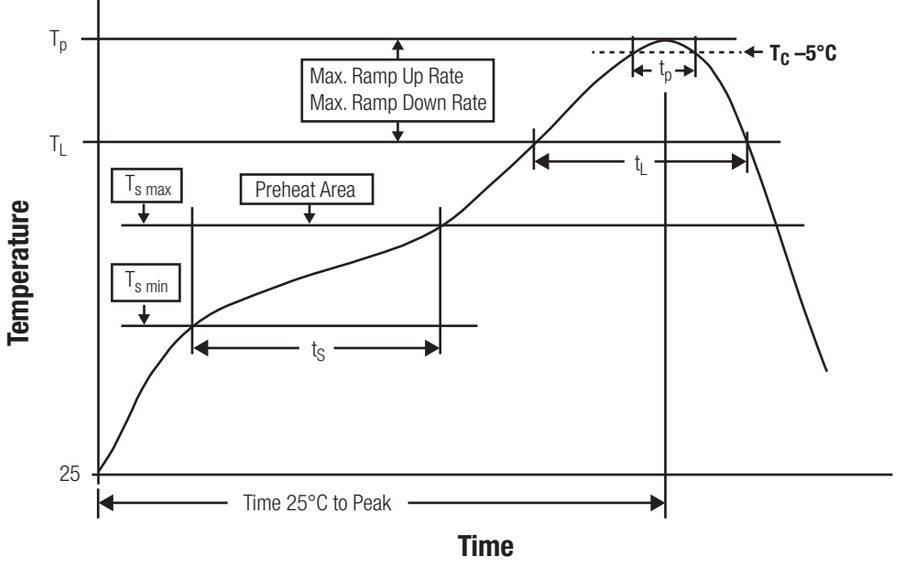
6.0 x 3.8 mm	eiCan	Valid



Preheat Temperature Max	$T_{s\,max}$	200 °C
Preheat Time t_s from $T_{s\,min}$ to $T_{s\,max}$	t_s	60 - 120 seconds
Ramp-up Rate (T_L to T_P)		3 °C/ second max.
Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	60 - 150 seconds
Peak package body temperature	T_p	see table
Time within 5°C of actual peak temperaure	t_p	20 - 30 seconds
Ramp-down Rate (T_L to T_P)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

1) refer to IPC/JEDEC J-STD-020D
refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature:

Properties	Volume mm³ <350	Volume mm³ 350-2000	Vo >2
PB-Free Assembly I Package Thickness < 1.6 mm 1)	260 °C	260 °C	26
PB-Free Assembly I Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	24
PB-Free Assembly I Package Thickness ≥ 2.5 mm	250 °C	245 °C	24

1) refer to IPC/JEDEC J-STD-020D
refer to IPC/ JEDEC J-STD-020E

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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:

- 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 u 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 hard could lead to an incomplete seal, allowing contaminants into the body, pins or termination. Expansion could damag 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 ter degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months base 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/JED also recommended to return the component to the original moisture proof bag and reseal the moisture proof bag ag

Handling:

- Do not repeatedly operate the switch with excessive force. It may damage or deform the switch resulting in malfunc
- Please set up the switch in such a way that the actuator will operate in a straight vertical line. A decrease in the life may result if the actuator is pressed off-center or from an angle. This might cause function errors or broken actuato 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 sold 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 product datasheet.

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

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ORDER CODE: **4341210**

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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.

available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the availability expectancy before or when the product for application design-in disposal is considered. The approach name 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, develo well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will Elektronik eiSos GmbH & Co. KG. Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any 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 Elektronik eiSos Group”, last version available at www.we-online.com.

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DESCRIPTION: **WS-TASV SMT Tact Switch**

ORDER CODE: **4341210**

SIZE/TYPE	BUSINESS UNIT	STATUS
6.0 x 3.8 mm	eiCan	Valid

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