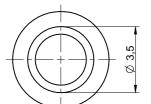
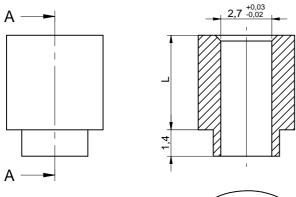
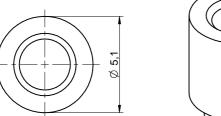
Dimensions: [mm]

Article Properties:

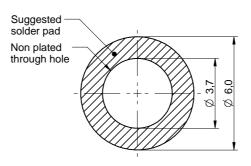
Properties Length







Recommended Land Pattern: [mm]



Stencil Suggestion:

Properties:

Properties	Value	Unit	Tol.
Material	Steel		
Surface	Tin		
Solder Cream Thickness	150	μm	min.

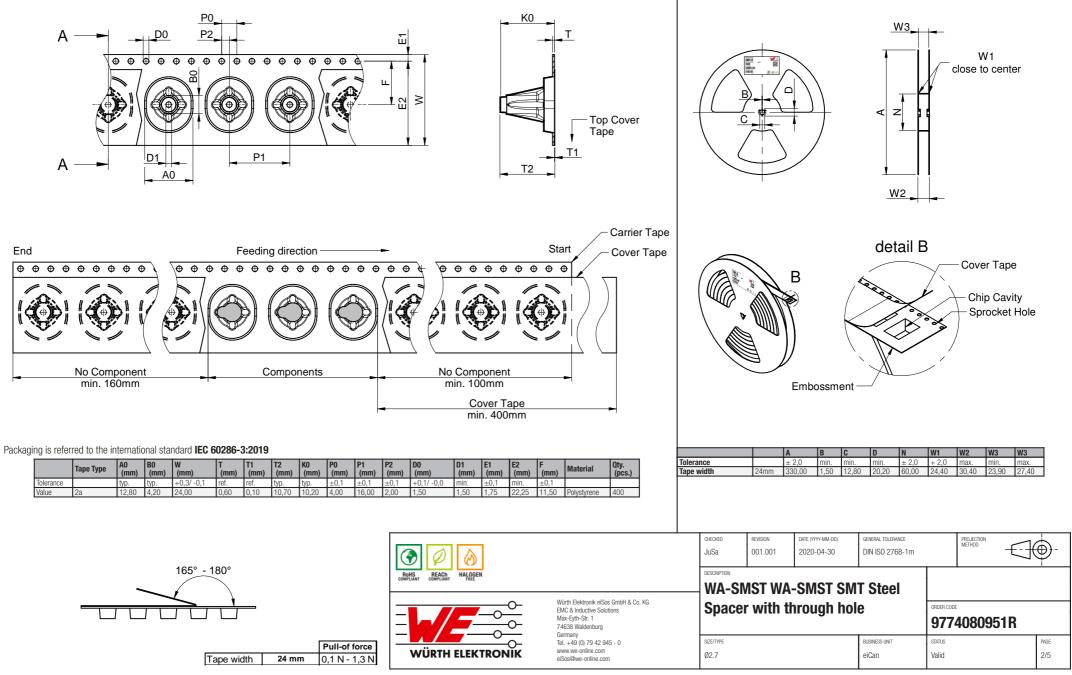
Certification:

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]

'		Ge	eneral In	Iformat	ion:			
			perating Ten	nperature		-5	5 up to +150 °C	
			orage Cond ackaging)	itions (in o	riginal	< 4	0°C;< 75% RH	
			oisture Sens	sitivity Lev	el (MSL)		1	
			In Tape & Ree	el packaging	a kapton-film is	fixed on the top of	the spacer for automatic as	sembly.
			uring the prog	gramming of	the Pick and Pla	ice machine and th kapton-film.	e AOI, please consider the f	lap of the
		9,65	During the o Spacers a	design of the are placed cl	e PCB layout, plea lose to each othe	ase consider the fla r, the flap may dist	ap of the kapton-film. If more urb the Pick and Place proce	e SMT ess.
Value Unit Tol.			1		1	GENERAL TOLERANCE		
8 mm ±0.1mm			CHECKED JuSa	REVISION 001.001	DATE (YYYY-MM-DD) 2020-04-30	DIN ISO 2768-1 m	PROJECTION METHOD	•
-	ROHS REACH HALOGEN		DESCRIPTION	IST WA	-SMST SM	IT Steel		
		Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyh-Str. 1 74638 Waldenburg	Spacer	r with tl	hrough ho	le	ORDER CODE 9774080951R	
		Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com	SIZE/TYPE			BUSINESS UNIT	STATUS	PAGE
	WÜRTH ELEKTRONİK	eiSos@we-online.com	Ø2.7			eiCan	Valid	1/5

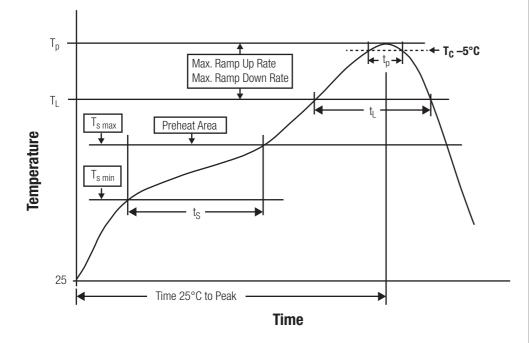
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is not authorized tor use in equipment 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 performed on every electronic component which is used in electrical incurbic for severamce.

Packaging Specification - 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 Wirth Elektronik elSos GmbH & Co KG products are netliner designed on 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 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 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 developed for use all electrical circuits that require injth safet and elebility functions or performance.

Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min ¹⁾	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.

¹⁾ refer to IPC/JEDEC J-STD-020D 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 $< 1.6 \text{ mm}^{1)}$	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 I Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C

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

		CHECKED JuSa	REVISION 001.001	DATE (YYYY-MM-DD) 2020-04-30	GENERAL TOLERANCE DIN ISO 2768-1 m	_	PROJECTION METHOD)-
ROHS COMPLIANT PREACH HALOGEN	Würth Elektronik eiSos GmbH & Co. KG			-SMST SM					
	EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany	Spacer with through hole				ORDER CODE	4080951F	R	
WÜRTH ELEKTRONIK	Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com	SIZE/TYPE Ø2.7			BUSINESS UNIT eiCan	status Valid		946 3/	

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Cautions and Warnings:

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

General:

- This mechanical component was 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 component surface may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged.
- Würth Elektronik products are qualified according to international standards. Würth Elektronik does not warrant any customer qualified
 product characteristics beyond Würth Elektronik's 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 do 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.
- All other soldering methods are at the customers' own risk.

Cleaning and Washing:

- Washing agents used during the production to clean the customer application might damage or change the characteristics of the component. Washing agents may have a negative effect on the long-term functionality of the product.
- Using a brush during the cleaning process may damage the component. Therefore, we do not recommend using a brush during the PCB cleaning process.

Potting:

• If the product is potted in the customer application, the potting material might shrink or expand during and after hardening. Shrinking could lead to an incomplete seal, allowing contaminants into the components. 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. 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.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time of the components.

Handling:

- The maximum permissible torques must be observed to prevent mechanical destruction of the component and PCB.
- Violation of the technical product specifications will void the warranty.

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 JUSa	REVISION 001.001	DATE (YYYY-MM-DD) 2020-04-30	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD		€-
ROHS REACH HALOGEN		DESCRIPTION	IST WA	-SMST SM	T Steel				
	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany	Spacer with through hole				ORDER CODE 9774	108095 1	IR	
	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type Ø2.7			BUSINESS UNIT eiCan	status Valid		1	PAGE 4/5

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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 JuSa	REVISION 001.001	DATE (YYYY-MM-DD) 2020-04-30	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	-]@-
Rohs COMPLIANT HALOGEN		DESCRIPTION	IST WA	-SMST SM	T Steel			
	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-St. 1 74638 Waldenburg Germany	Spacer with through hole				ORDER CODE 9774	080951R	
	Tel. +49 (0) 79 42 945 - 0 www.we-online.com	SIZE/TYPE Ø2.7			BUSINESS UNIT eiCan	status Valid		PAGE 5/5

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 evaluation (automotive control, train control, ship control, train contro

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