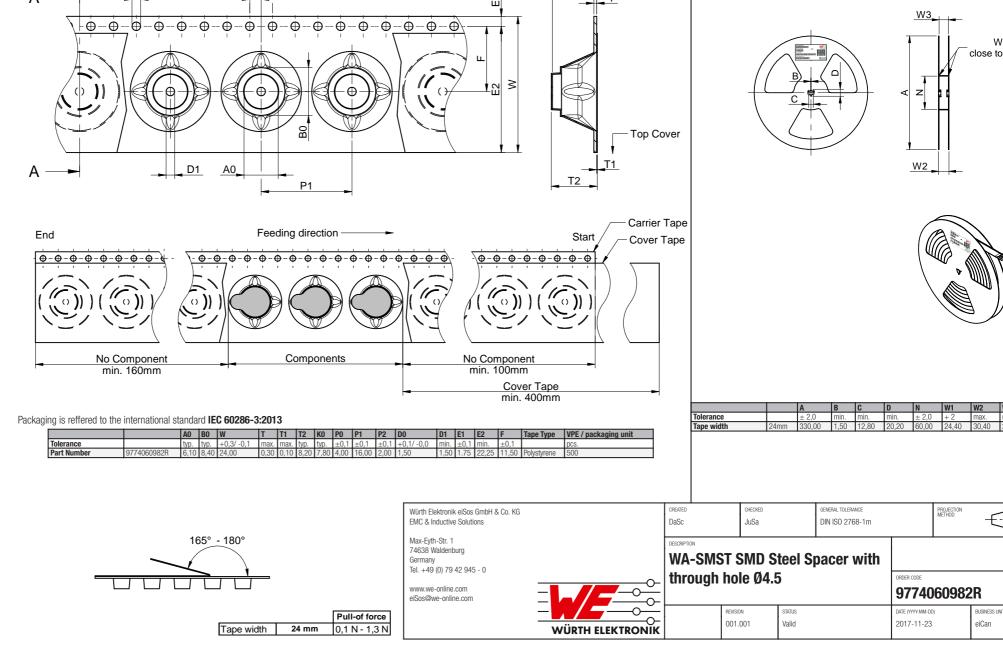


This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is not authorized tor usage in 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. More & Co KG products are neither designed not intended for use in areas such as military, aerospace, evaluation, nucleace, availation, autificant reliability finance on signal, disaster prevention, medical, public information network etc... Worth Elektronic component which is used in the reliability intended or use in electrical circuits and and reliability for an acce.

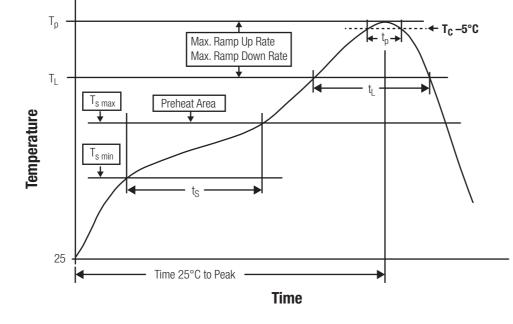
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0 mm	9774020982
2 mm	9774020982R
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9 mm	9774090982
3 mm	9774090982R
10 mm	9774100982R
	9774100982

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions	CREATED CHECKED GENERAL TOLERANCE DaSC JUSA DIN ISO 2768-1m					PROJECTION METHOD	÷
Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0	WA-SMST SMD Steel Spacer with through hole Ø4.5						
www.we-online.com eiSos@we-online.com	linougii				97740	60982	R.
-		REVISION	STATUS		DATE (YYYY-MM-DE))	BUSINESS UN
-		001.001	Valid		2017-11-23		eiCan

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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 not authorized tor use in equipment only. This product is not authorized for use in equipment specifically governing such use. More & Co K products are neither designed on intended for use in areas such as military, aerospace, availation, nuclear control, standardine, transportation signal, disaster prevention, medical, public information representation (automotive control, transportation signal, disaster prevention, medical, public information representation (automotive control, transportation signal, disaster prevention, medical, public information representation (automotive control, transportation signal, disaster prevention, medical, public information representation (automotive control, transportation signal, disaster prevention, medical, public information representation (automotive control, transportation signal, disaster prevention, medical, public information representation repre



Preheat Temperature Max	T _{s max}	200 °C
Preheat Time t_s from T_{smin} to T_{smax}	ts	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	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 mm ³ <350	Volume mm ³ 350-2000	V0 >2
	PB-Free Assembly Package Thickness < 1.6 mm ¹⁾	260 °C	260 °C	26
	PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	24
l	PB-Free Assembly 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

-		-						
Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions		CREATED CHECKED GENERAL TOLERANCE DaSc JuSa DIN ISO 2768-1m					PROJECTION METHOD	÷
Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com	WA-SMST SMD Steel Spacer with through hole Ø4.5					60982	 ?R	
		1 1	WISION 01.001	status Valid		DATE (YYYY-MM-DE 2017-11-23	·	BUSINESS UI eiCan

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General:

All recommendations according to the general technical specifications of the data-sheet have to be complied with.

The responsibility for the applicability of 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 for customer specific products.

Product Specific:

Follow all instructions in the datasheet, especially:

- The solder profile has to be complied with according to the technical reflow soldering specification, otherwise no warranty will be sustained. Surface discoloration due to reflow processing is permitted.
- Wave soldering is not applicable. Reflow soldering is recommended.
- All products shall be used before the end of the period of 24 months based on the product date-code, if not a 100% solderability can't be ensured.
- The maximum permissible torques must be complied with to prevent mechanical destruction of the elements and PCB.

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions		CREATED CHECKED GENERAL TOLERANCE DaSc JUSa DIN ISO 2768-1m					PROJECTION METHOD	÷
Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0		DESCRIPTION						
www.we-online.com eiSos@we-online.com		through	ORDER CODE	60982	R			
			REVISION 001.001	status Valid		DATE (YYYY-MM-DE 2017-11-23	·	BUSINESS UNI eiCan
	WÜRTH ELEKTRONĬK		001.001	Vallu		2017-11-23		elodii

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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, develor well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will Elektronik eiSos GmbH & Co. KG does not warrant or represent that any licens 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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Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions		CREATED DaSc	CHECKED JuSa		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	÷
Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0		WA-SMST SMD Steel Spacer with through hole Ø4.5						
www.we-online.com eiSos@we-online.com	unougini	1010 04.	J		ORDER CODE	60982	R.	
		F	REVISION	STATUS		DATE (YYYY-MM-DD)	BUSINESS U
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