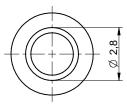
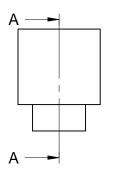
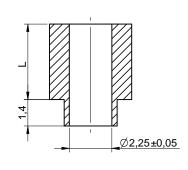
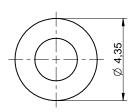
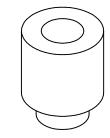
Dimensions: [mm]







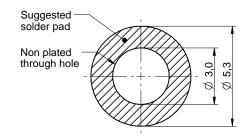




Article Properties:

Properties		Value	Unit
Length	L	2.5	mm

Recommended Land Pattern: [mm]

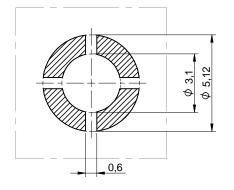


Scale - 5:1

Properties:

Properties		Value	Unit
Inner Diameter	Ø ID	2.8	mm
Outer Diameter	Ø OD	4.35	mm
Hole Diameter	Øf	2.25	mm
Material		Steel	
Surface		Tin	
Solder Cream Thickness		150 μm	

Stencil Suggestion:



Scale - 5:1

Packaging Properties:

	Packaging	Tape and Reel
١	Packaging Unit (Qty.)	950

In Tape & Reel packaging a kapton-film is fixed on the top of the spacer for automatic assembly.

During the programming of the Pick and Place machine and the AOI, please consider the flap of the kapton-film.

Würth Flektronik eiSos GmhH & Co. KG
Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions
Elifo di industrio colditorio

Max-Eyth-Str. 1 74638 Waldenburg Tel. +49 (0) 79 42 945 - 0

www.we-online.com eiSos@we-online.com



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DaMa	SKI	DIN ISO 2

2768-1m

PAGE

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WA-SMST SMD Steel Spacer with through hole Ø2.25

9774025943R

DATE (YYYY-MM-DD) BUSINESS UNIT REVISION STATUS 001.001 Valid 2017-04-07

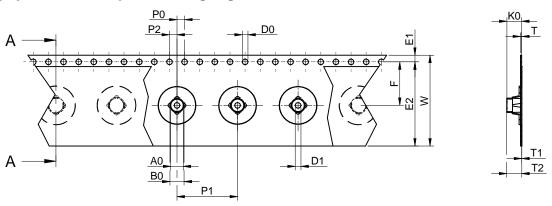
ORDER CODE

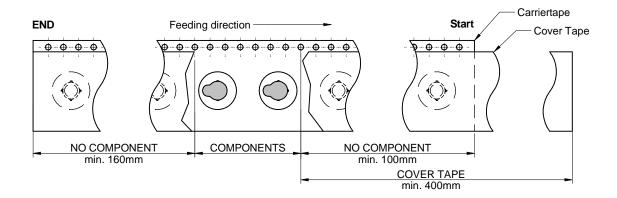
Article Properties:

L	Order Code
1.0 mm	9774010943R
1.0 mm	9774010943
4.5	9774015943R
1.5 mm	9774015943
0.0	9774020943R
2.0 mm	9774020943
0.5	9774025943
2.5 mm	9774025943R
3.0 mm	9774030943
	9774030943R
3.5 mm	9774035943R
	9774035943
4.0	9774040943R
4.0 mm	9774040943
4.5 mm	9774045943R
4.5	9774045943
5.0 mm	9774050943
0.0	9774050943R
6.0 mm	9774060943R
0.0	9774060943
7.0 mm	9774070943
7.U IIIII U. 7	9774070943R
0.0 mm	9774080943
8.0 mm	9774080943R

CREATED CHECKED GENERAL TOLERANCE Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions DIN ISO 2768-1m DaMa SKI Max-Eyth-Str. 1 74638 Waldenburg WA-SMST SMD Steel Spacer with Tel. +49 (0) 79 42 945 - 0 through hole Ø2.25 ORDER CODE www.we-online.com 9774025943R eiSos@we-online.com DATE (YYYY-MM-DD) BUSINESS UNIT REVISION STATUS PAGE 001.001 Valid 2/6 2017-04-07 eiCan **WÜRTH ELEKTRONIK**

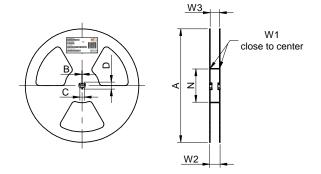
Packaging Specification - Tape and Reel: [mm]







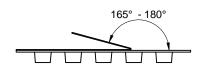
		A0	B0	W	P1	T	T1	T2	K0	D0	D1	E1	E2	F	P0	P2	Tape	VPE / packaging unit
tolerance		typ.	typ.	±0,3	±0,1	max.	min.	ref.	typ.	+0,1	min.	±0,1	min.	±0,05	±0,1	±0,05		pcs.
size	9774025943R	3.30	4 45	24 00	16.00	0.60	0.10	4 50	4 20	1.50	1.50	1 75	22 25	11 50	4 00	2 00	Polystyrene	950



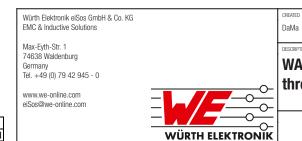


PROJECTION

		Α	В	C	D	N	W1	W2	W3	W3
tolerance		±2,0	min.	min.	min.	±2,0	+2	max.	min.	max.
Tape width	24mm	330.00	1.50	12.80	20.20	60.00	24.40	30.40	23.90	27.40



		Pull-of force
Tape width	24 mm	0,1 N - 1,3 N



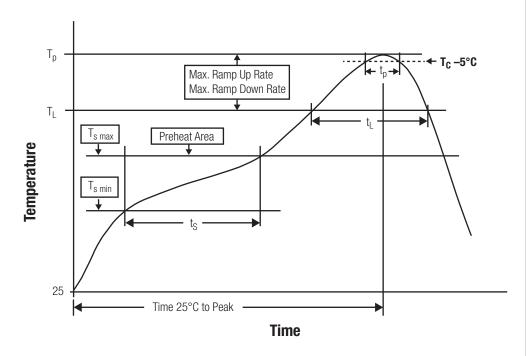
	DESCRIPTION WA-SMST S	SMD Steel S	pacer with	,		79	
<u></u>	through ho	le Ø2.25		97740	25943	R	

GENERAL TOLERANCE

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REVISION	STATUS	DATE (YYYY-MM-DD)	BUSINESS UNIT	PAGE
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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 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 mm ³ 350-2000	Volume mm³ >2000
PB-Free Assembly I Package Thickness < 1.6 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

GENERAL TOLERANCE CREATED CHECKED Würth Elektronik eiSos GmbH & Co. KG **EMC & Inductive Solutions** DaMa SKI DIN ISO 2768-1m Max-Eyth-Str. 1 74638 Waldenburg **WA-SMST SMD Steel Spacer with** Tel. +49 (0) 79 42 945 - 0 through hole Ø2.25 ORDER CODE www.we-online.com 9774025943R eiSos@we-online.com DATE (YYYY-MM-DD) REVISION STATUS BUSINESS UNIT PAGE 001.001 Valid 4/6 2017-04-07 eiCan WÜRTH ELEKTRONIK

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:

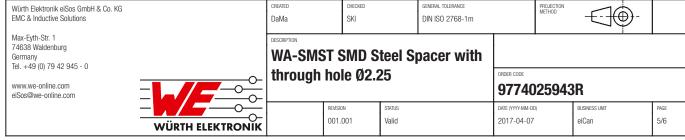
All recommendations according to the general technical specifications of the data-sheet have to be complied with.

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 12 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.



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.

