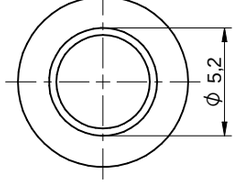
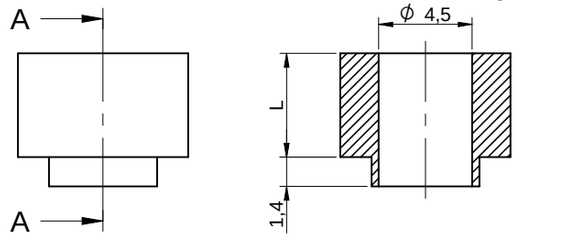
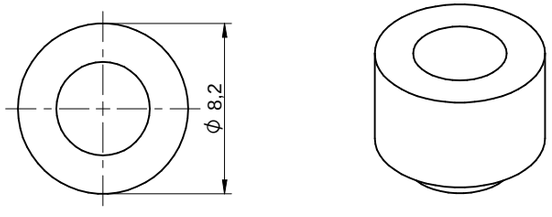
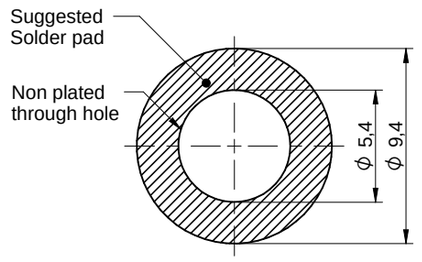


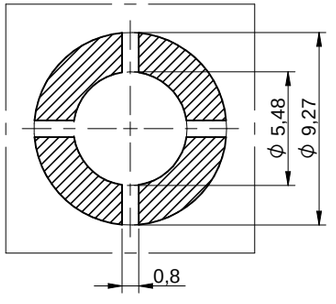






Scale - 3:1

Stencil Suggestion:



Scale - 3:1

Article Properties:

Properties		Value	Unit
Length	L	9	mm

Outer Diameter	Ø OD	8.2
Hole Diameter	Ø f	4.5
Material		Steel
Surface		Tin
Solder Cream Thickness		150

Packaging Properties:

Packaging		Tape and Reel
Packaging Unit (Qty.)	Qty.	350

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

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

Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions

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

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WÜRTH ELEKTRONIK

CREATED	CHECKED	GENERAL TOLERANCE	PROJECTION METHOD
DaSc	JuSa	DIN ISO 2768-1m	

DESCRIPTION
WA-SMST SMD Steel Spacer with through hole Ø4.5

ORDER CODE
9774090982R

REVISION	STATUS	DATE (YYYY-MM-DD)	BUSINESS UNIT
001.001	Valid	2017-11-23	eiCan

1 mm	9774010982
2 mm	9774020982
	9774020982R
3 mm	9774030982
	9774030982R
4 mm	9774040982
	9774040982R
5 mm	9774050982
	9774050982R
6 mm	9774060982R
	9774060982
7 mm	9774070982
	9774070982R
8 mm	9774080982
	9774080982R
9 mm	9774090982
	9774090982R
10 mm	9774100982R
	9774100982

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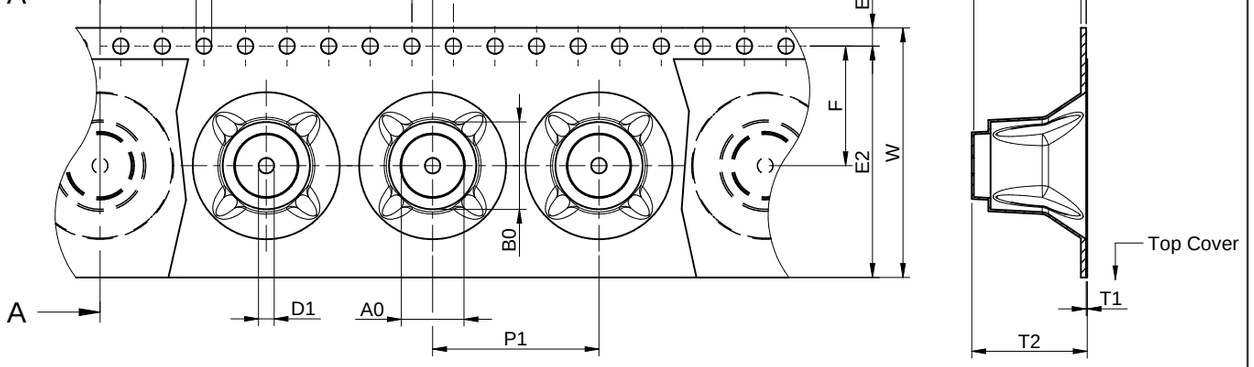
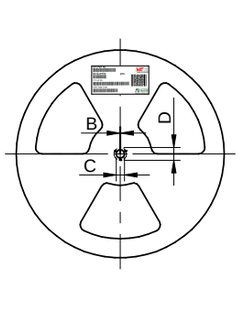
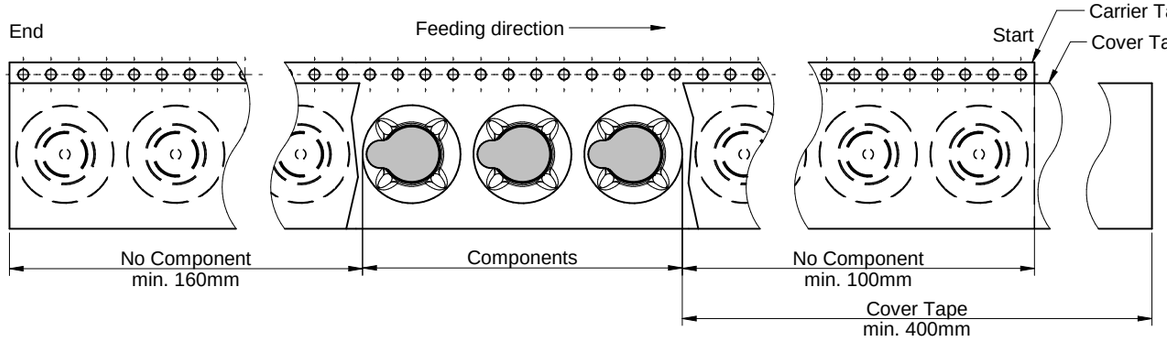
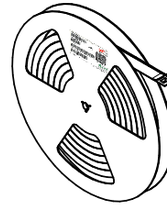




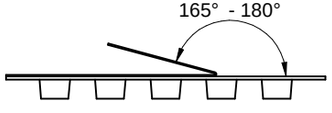




		A	B	C	D	N	W1	W2	
Tolerance		± 2,0	min.	min.	min.	± 2,0	+ 2	max.	
Tape width	24mm	330,00	1,50	12,80	20,20	60,00	24,40	30,40	

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	VPE / packaging unit
Tolerance		typ.	typ.	+0,3/ -0,1	max.	max.	typ.	typ.	±0,1	±0,1	±0,1	+0,1/ -0,0	min.	±0,1	min.	±0,1		pcs.
Part Number	9774090982R	6,10	8,40	24,00	0,30	0,10	11,20	10,80	4,00	16,00	2,00	1,50	1,50	1.75	22,25	11,50	Polystyrene	350



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

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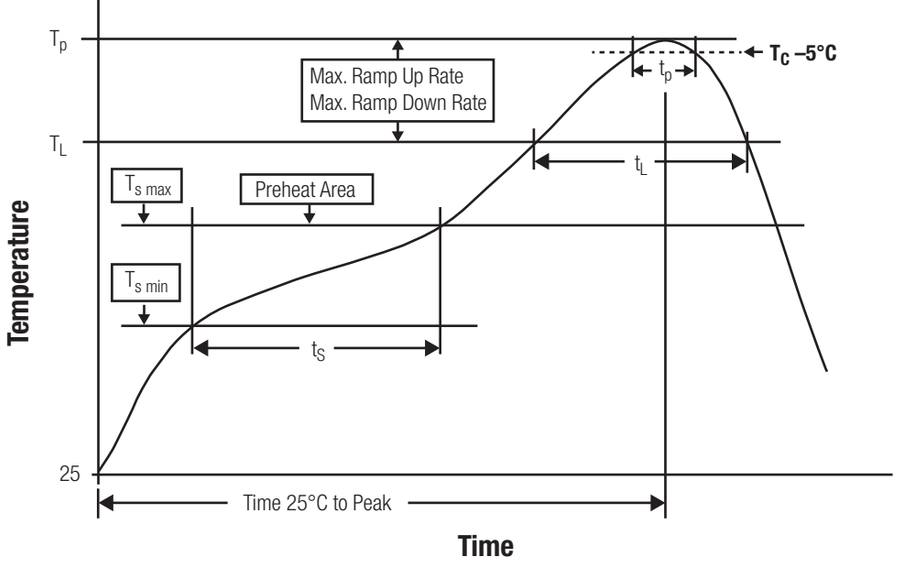

Preheat Temperature Max	$T_{s\,max}$	200 °C
Preheat Time t_s from $T_{s\,min}$ to $T_{s\,max}$	t_s	60 - 120 seconds
Ramp-up Rate (T_L to T_P)		3 °C/ second max.
Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	60 - 150 seconds
Peak package body temperature	T_p	see table
Time within 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:

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.

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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.

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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