

Excellent Integrated System Limited

Stocking Distributor

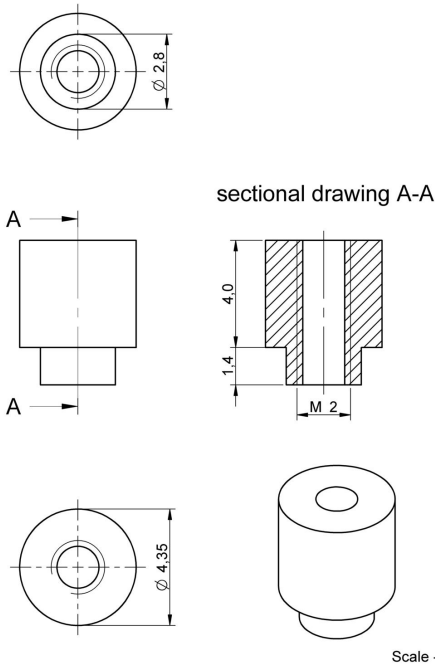
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Wurth Electronics Inc](#)
[9774040243R](#)

For any questions, you can email us directly:

sales@integrated-circuit.com

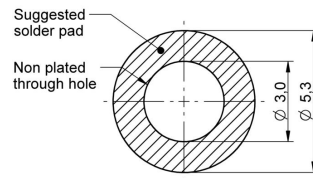
A Dimensions: [mm]



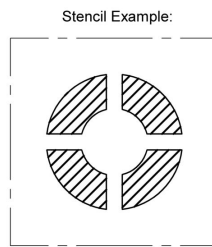
Technical Tolerances according to DIN ISO 2768m

In tape & reel packaging a kapton-film is fixed on the top of the spacer to realize automatic assembly

B Recommended land pattern: [mm]



C Stencil suggestion:



D Properties:

Properties	Value
Surface	Tin plated
Material	11SMnPb30
Thread	M2
Tightening torque	0.2 Nm
Solder Cream Thickness	150 µm
Packaging	Reel

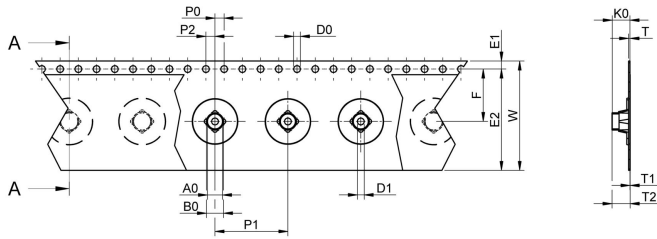
E General information:

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

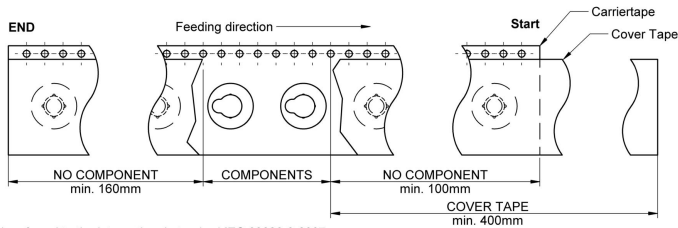
During the programming of the Pick and Place machine and the AOI, please consider the flap of the kapton-film.

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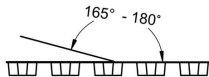
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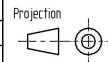
		A0	B0	W	P1	T	T1	T2	K0	D0	D1	E1	E2	F	P0	P2	Tape	VPE / packaging unit
size	tolerance	typ.	typ.	±0.3	±0.1	max.	min.	ref.	typ.	±0.1	min.	±0.1	min.	±0.05	±0.1	±0.05		pcs.
	9774010243	3.30	4.45	24.00	16.00	0.60	0.10	3.10	2.80	1.50	1.50	1.75	22.25	11.50	4.00	2.00	Polystyrene	1500
	9774015243	3.30	4.45	24.00	16.00	0.60	0.10	3.50	3.20	1.50	1.50	1.75	22.25	11.50	4.00	2.00	Polystyrene	1200
	9774020243	3.30	4.45	24.00	16.00	0.60	0.10	4.00	3.70	1.50	1.50	1.75	22.25	11.50	4.00	2.00	Polystyrene	1050
	9774025243	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
	9774030243	3.30	4.45	24.00	16.00	0.60	0.10	5.00	5.20	1.50	1.50	1.75	22.25	11.50	4.00	2.00	Polystyrene	800
	9774035243	3.30	4.45	24.00	16.00	0.60	0.10	5.70	5.20	1.50	1.50	1.75	22.25	11.50	4.00	2.00	Polystyrene	800
	9774040243	3.30	4.45	24.00	16.00	0.60	0.10	7.20	6.70	1.50	1.50	1.75	22.25	11.50	4.00	2.00	Polystyrene	600
	9774045243	3.30	4.45	24.00	16.00	0.60	0.10	7.20	6.70	1.50	1.50	1.75	22.25	11.50	4.00	2.00	Polystyrene	600
	9774050243	3.30	4.45	24.00	16.00	0.60	0.10	7.20	6.70	1.50	1.50	1.75	22.25	11.50	4.00	2.00	Polystyrene	600
	9774060243	3.30	4.45	24.00	16.00	0.60	0.10	8.70	8.20	1.50	1.50	1.75	22.25	11.50	4.00	2.00	Polystyrene	500
	9774070243	3.30	4.45	24.00	16.00	0.60	0.10	10.20	9.70	1.50	1.50	1.75	22.25	11.50	4.00	2.00	Polystyrene	400
9774080243	3.30	4.45	24.00	16.00	0.60	0.10	10.20	9.70	1.50	1.50	1.75	22.25	11.50	4.00	2.00	Polystyrene	400	



Packaging is referred to the international standard IEC 60286-3:2007



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



Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions
Max-Eyth-Str. 1
74638 Waldenburg
Germany
Tel. +49 (0) 79 42 945 - 0
www.we-online.com
eiSos@we-online.com

DESCRIPTION

**WA-SMSI SMT Steel Spacer, M2 Thread
Internal**

Order - No.

9774040243R

SIZE

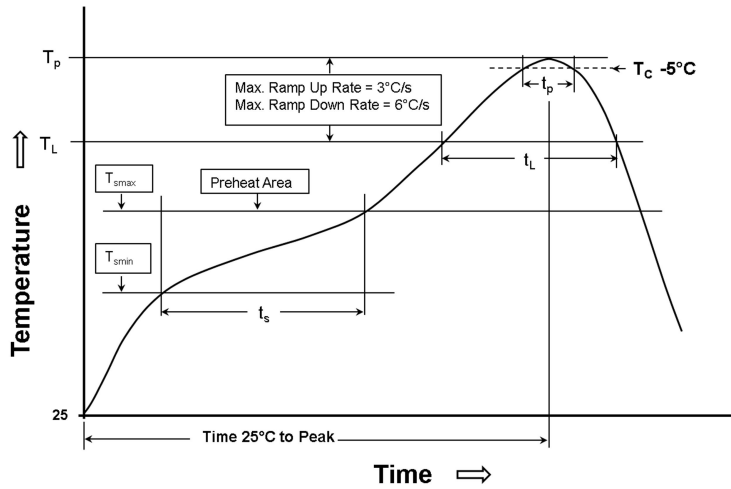
A4

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H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Preheat - Temperature Min (T_{smin}) - Temperature Max (T_{smax}) - Time (t_s) from (T_{smin} to T_{smax})	150°C 200°C 60-120 seconds
Ramp-up rate (T_L to T_p)	3°C/ second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217°C 60-150 seconds
Peak package body temperature (T_p)	See Table H3
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.

refer to IPC/JEDEC J-STD-020D

H3: Package Classification Reflow Temperature

	Package Thickness	Volume mm ³ <350	Volume mm ³ 350 - 2000	Volume mm ³ >2000
PB-Free Assembly	< 1.6 mm	260°C	260°C	260°C
PB-Free Assembly	1.6 - 2.5 mm	260°C	250°C	245°C
PB-Free Assembly	≥ 2.5 mm	250°C	245°C	245°C

refer to IPC/JEDEC J-STD-020D

					Projection 		DESCRIPTION
							WA-SMSI SMT Steel Spacer, M2 Thread Internal
					Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburger Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	Order.- No. 9774040243R	COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK
1.0	2015-03-11	SSi	SKI				SIZE A4
REV	DATE	BY	CHECKED				

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I Cautions and Warnings:

The following conditions apply to all goods within the product series of **WA-SMSI** 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.



					Projection 		DESCRIPTION
							WA-SMSI SMT Steel Spacer, M2 Thread Internal
					Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburger Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		Order.- No. 9774040243R
							 COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK
							SIZE A4

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J 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

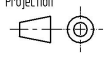
All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG.

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.



				Projection		DESCRIPTION
						WA-SMSI SMT Steel Spacer, M2 Thread Internal
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburger Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		Order.- No.
1.0	2015-03-11	SS	SKI			9774040243R
REV	DATE	BY	CHECKED			 COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK
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