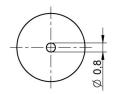
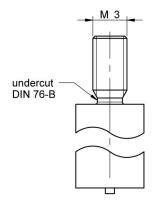
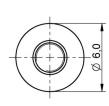
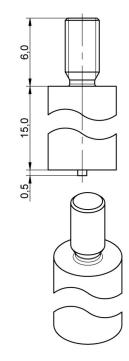
A Dimensions: [mm]









Scale - 3:1

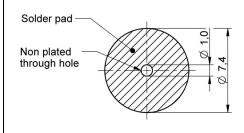
1.0

2013-12-13

DATE

Technical Tolerances according to DIN ISO 2768m In tape & reel packaging a cap is fixed to the product to realize automatic assembly

B Recommended land pattern: [mm]



Scale - 3:1

Scale - 3:1

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1

Projection

74638 Waldenburg

www.we-online.com

eiSos@we-online.com

Tel. +49 (0) 79 42 945 - 0

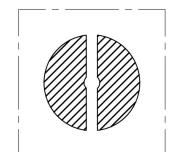
Germany



D Properties:

Properties	Value
Surface	Tin plated
Material	11SMnPB30
Thread	M3
Tightening torque	0.5 Nm
Solder Cream Thickness	150 μm
Packaging	Reel

C Stencil suggestion:



Stencil Example:

E General information:

DESCRIPTION

WA-SMSE SMD Steel Spacer, M3 Thread External

Order.- No.

9771150360R



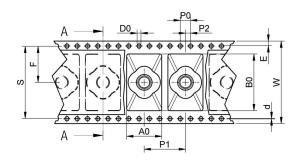
SIZE A4

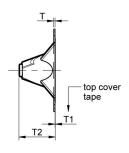
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment only. This product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, strip control), transportation (automotive control, train control, strip control), transportation (automotive control, train control, strip control), transportation (automotive control, train control, trai the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

SKI

CHECKED

SSt

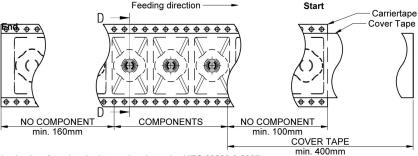




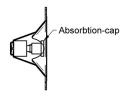
						_						_				VPE /
		Α0	В0	w	P1	Т	T1	Т2	D0	E1	S	F	P0	P2	Таре	packaging unit
	tolerance	typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,3 -0,1	± 0,1	min.	± 0,05	± 0,1	± 0,05		
	9771050360	13,60	22,00	32,00	16,00	0,50	0,10	13,70	1,50	1,75	28,40	14,20	4,00	2,00	Polystyrene	300
	9771060360	13,60	22,00	32,00	16,00	0,50	0,10	13,70	1,50	1,75	28,40	14,20	4,00	2,00	Polystyrene	300
	9771070360	13,60	22,00	32,00	16,00	0,50	0,10	13,70	1,50	1,75	28,40	14,20	4,00	2,00	Polystyrene	200
	9771080360	13,60	22,00	32,00	16,00	0,50	0,10	17,70	1,50	1,75	28,40	14,20	4,00	2,00	Polystyrene	200
	9771090360	13,60	22,00	32,00	16,00	0,50	0,10	17,70	1,50	1,75	28,40	14,20	4,00	2,00	Polystyrene	200
size	9771100360	13,60	22,00	32,00	16,00	0,50	0,10	17,70	1,50	1,75	28,40	14,20	4,00	2,00	Polystyrene	200
	9771110360	13,60	22,00	32,00	16,00	0,50	0,10	17,70	1,50	1,75	28,40	14,20	4,00	2,00	Polystyrene	150
	9771120360	13,60	22,00	32,00	16,00	0,50	0,10	22,70	1,50	1,75	28,40	14,20	4,00	2,00	Polystyrene	150
	9771130360	13,60	22,00	32,00	16,00	0,50	0,10	22,70	1,50	1,75	28,40	14,20	4,00	2,00	Polystyrene	150
	9771140360	13,60	22,00	32,00	16,00	0,50	0,10	22,70	1,50	1,75	28,40	14,20	4,00	2,00	Polystyrene	150
	9771150360	13,60	22,00	32,00	16,00	0,50	0,10	22,70	1,50	1,75	28,40	14,20	4,00	2,00	Polystyrene	150

Pull-of force

32 mm 0,1 N - 1,3 N



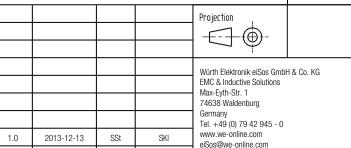
Tape width



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

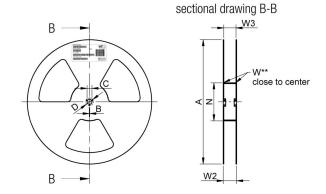
165° -180°



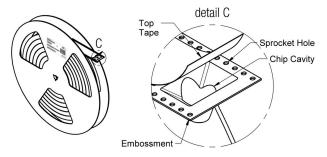


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		Α	В	С	D	N	W1	W2	W3	W3
tolerance		± 2,0	min.	± 0,8	min.	± 2,0	+ 1,5	max.	min.	max.
Tape width	32 mm	330,00	1,50	13,00	20,20	100,00	32,40	38,40	31,90	35,40



WA-SMSE SMD Steel Spacer, M3 Thread External

Order.- No.

DESCRIPTION

9771150360R



SIZE A4

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 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 eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, ship control), transportation (automotive control, train control, ship control), transportation network etc.. Würth Elektronik eiSos 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 electrical circuits that require high safety and reliability functions or performance.

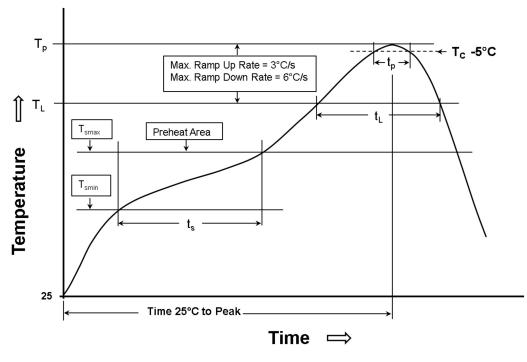
BY

DATE

H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly	Pb-Free Assembly					
Preheat	150°C						
- Temperature Min (T _{smin}) - Temperature Max (T _{smax})	200°C						
- Time (t _S) from (T _{Smin} to T _{Smax})	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	60-150 seconds						
Peak package body temperature (Tp)	See Table H3						
Time within 5°C of actual peak temperature (tp)	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 mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >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 ————————————————————————————————————	WA-SMSE SMD Steel Spacer, M3 Thread
				Würth Elektronik eiSos GmbH & Co. K6 EMC & Inductive Solutions Max-Eyth-Str. 1	_ · · · · · · · · · · · · · · · · · ·
				74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0	Order No. COMPLIANT ROHS&REACH WERTH ELEKTRONIK
1.0	2013-12-13	SSt	SKI	www.we-online.com eiSos@we-online.com	9771150360R
REV	DATE	BY	CHECKED	eloos@we-offline.com	

I Cautions and Warnings:

The following conditions apply to all goods within the product series of WA-SMSE 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 warranted.
- •The maximum permissible torques must be complied with to prevent mechanical destruction of the elements and PCB.



				Projection		DESCRIPTION		
						WA-SMSE SMD	Steel Spacer, M3 Thr	ead
				Würth Elektronik eiSos Gmb EMC & Inductive Solutions	oH & Co. KG	External	• ,	
				Max-Eyth-Str. 1 74638 Waldenburg Germany		Order No.	COMPLIANT	SIZE
1.0	2013-12-13	SSt	SKI	Tel. +49 (0) 79 42 945 - 0 www.we-online.com		9771150360R	ROHS&REACH	A4
REV	DATE	BY	CHECKED	eiSos@we-online.com				ļ

DECODIDATION

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 1	DESCRIPTION
					WA-SMSE SMD Steel Spacer, M3 Thread
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions	External
				Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0	Order No. COMPLIANT ROHS&REACH WORTH ELEKTRONIK
1.0	2013-12-13	SSt	SKI	www.we-online.com eiSos@we-online.com	9771150360R WÜRTH ELEKTRONIK A4
REV	DATE	BY	CHECKED	GIOCOSSIVE GIIIII IG.GOITI	



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина,

дом 2, корпус 4, литера А.