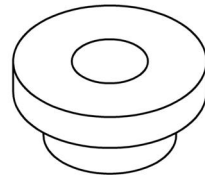
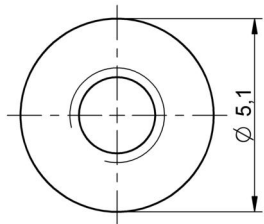
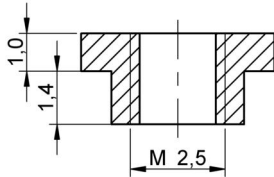
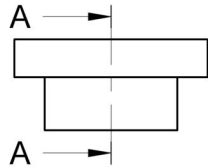
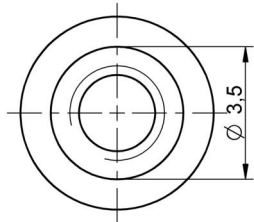


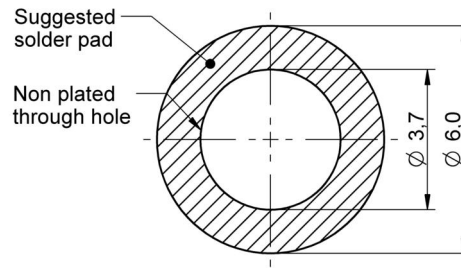


A Dimensions: [mm]



Scale - 5:1

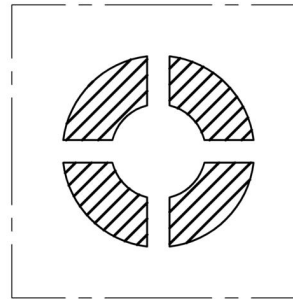
B Recommended land pattern: [mm]



Scale - 5:1

C Stencil suggestion:

Stencil Example:



Scale - 3:1

D Properties:

Properties	Value
Surface	Tin plated
Material	11SMnPb30
Thread	M2.5
Tightening torque	0.35 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.

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

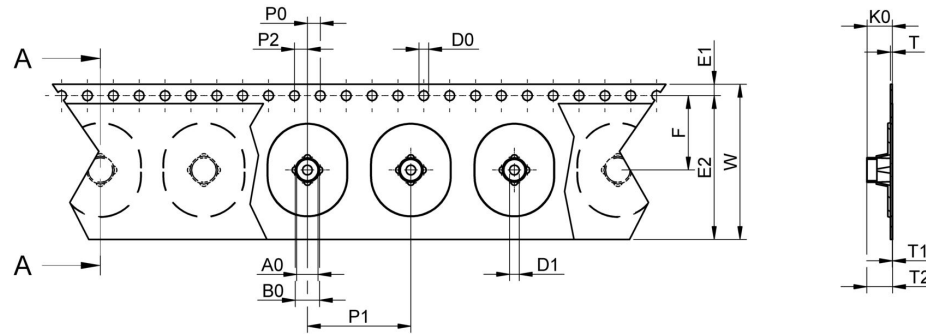
1.0	2015-03-11	SSt	SKI
REV	DATE	BY	CHECKED

Projection

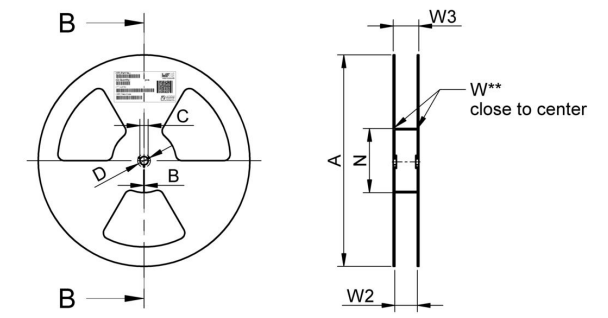
Würth Elektronik eiSos GmbH & Co. KG
 EMC & Inductive Solutions
 Max-Eyth-Str. 1
 74638 Waldenburg
 Germany
 Tel. +49 (0) 79 42 945 - 0
 www.we-online.com
 eiSos@we-online.com

DESCRIPTION	
WA-SMSI SMT Steel Spacer, M2.5 Thread Internal	
Order.- No.	SIZE
9774010151R	A4

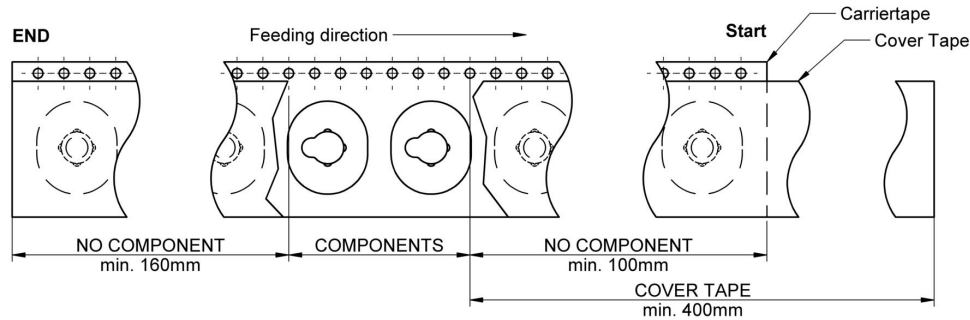




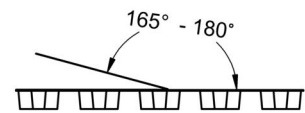
size	tolerance		A0	B0	W	P1	T	T1	T2	K0	D0	D1	E1	E2	F	P0	P2	Tape	VPE / packaging unit
	typ.	typ.	±0,3	±0,1	max.	min.	ref.	typ.	+0,1	min.	±0,1	min.	±0,05	±0,1	±0,05				pcs.
9774010151	3,80	5,20	24,00	16,00	0,60	0,10	3,10	2,80	1,50	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	1500		
9774015151	3,80	5,20	24,00	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		
9774020151	3,80	5,20	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		
9774025151	3,80	5,20	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		
9774027151	3,80	5,20	24,00	16,00	0,60	0,10	6,00	5,70	1,50	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	700		
9774030151	3,80	5,20	24,00	16,00	0,60	0,10	6,00	5,70	1,50	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	700		
9774040151	3,80	5,20	24,00	16,00	0,60	0,10	6,00	5,70	1,50	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	700		
9774050151	3,80	5,20	24,00	16,00	0,60	0,10	9,20	8,70	1,50	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	450		
9774060151	3,80	5,20	24,00	16,00	0,60	0,10	9,20	8,70	1,50	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	450		
9774070151	3,80	5,20	24,00	16,00	0,60	0,10	9,20	8,70	1,50	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	450		
9774080151	3,80	5,20	24,00	16,00	0,60	0,10	10,70	10,20	1,50	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	400		
9774090151	3,80	5,20	24,00	16,00	0,60	0,10	12,20	11,70	1,50	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	300		
9774100151	3,80	5,20	24,00	16,00	0,60	0,10	12,20	11,70	1,50	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	300		



tolerance	A	B	C	D	N	W1	W2	W3	W3	
	± 2,0	min.	± 0,8	min.	± 2,0	+ 2	max.	min.	max.	
Tape width	24mm	330,00	1,50	13,00	20,20	60,00	24,40	30,40	23,90	27,40



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



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

1.0	2015-03-11	SSt	SKI		
REV	DATE	BY	CHECKED		

Projection

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 eiSos@we-online.com

DESCRIPTION

WA-SMSI SMT Steel Spacer, M2.5 Thread Internal

Order.- No. **9774010151R**

COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK

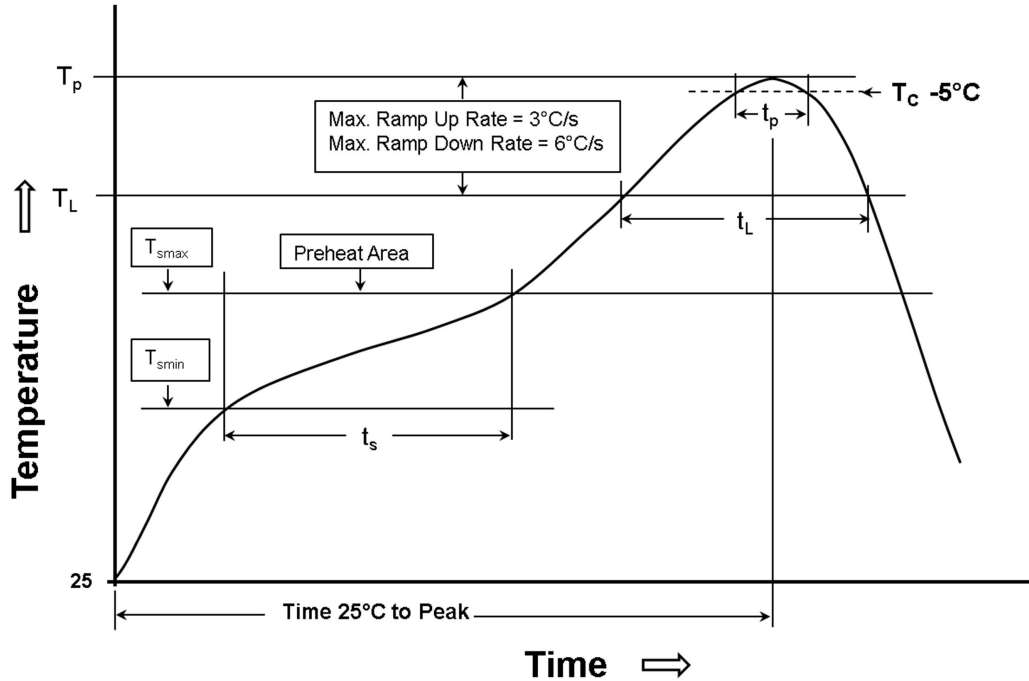
SIZE
A4

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 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. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information 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.

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
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				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	Order.- No. 9774010151R
1.0	2015-03-11	SSt	SKI		COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK
REV	DATE	BY	CHECKED		SIZE A4

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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.



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