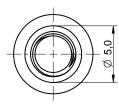
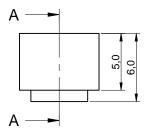
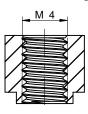
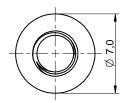
## **Dimensions: [mm]**



# sectional drawing A-A



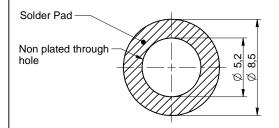






Scale - 3:1

# **Recommended Land Pattern: [mm]**



Scale - 3:1

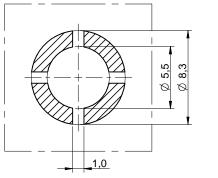
## **Mechanical and Electrical Properties:**

Properties		Test conditions	Value	Unit	Tol.				
Solder Paste Thickness			150	μm					
Tightening Torque			1.2	N*m					
Rated Current	I <sub>R</sub>	@ 20 °C	50	Α	max.				
Operating current depends on PCB, cable lug and cross section of the cable									

## **Certification:**

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACh Approval	Conform or declared [(EC)1907/2006]
Halogen Free	Conform [JEDEC JS709B]
Halogen Free	Conform [IEC 61249-2-21]

# **Stencil Suggestion:**



Scale - 3:1

## **Properties:**

CHECKED

SuPe

Material		Brass				
Surface		Tin				
Operating Temperature	-55 °C up to +150 °C					
Storage Conditions (in original packaging)	< ; < 75 % RH					
Moisture Sensitivity Level (MSL)	1					
Packaging	Tape and Reel					
Packaging Unit	Qty.	500				





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

eiSos@we-online.com

**WP-SMBU REDCUBE SMT** 

REVISION

001.003

DATE (YYYY-MM-DD)

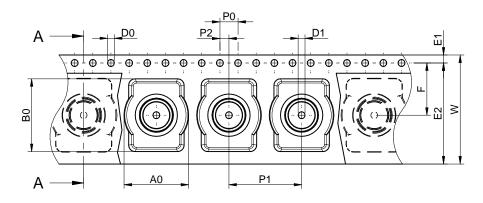
2023-07-03

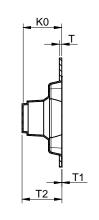
ORDER CODE 7466004R STATUS BUSINESS UNIT PAGE eiCan Valid 1/6 Internal through-hole thread

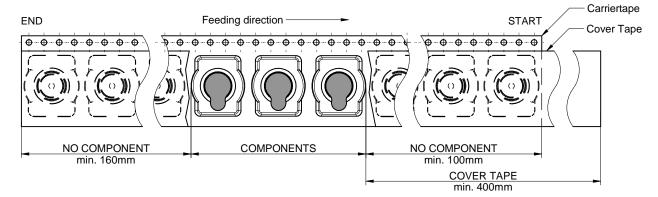
GENERAL TOLERANCE

DIN ISO 2768-1m

## Packaging Specification - Tape and Reel: [mm]



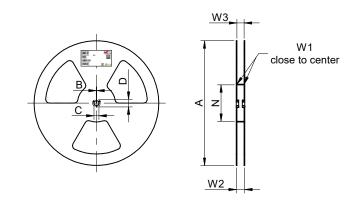


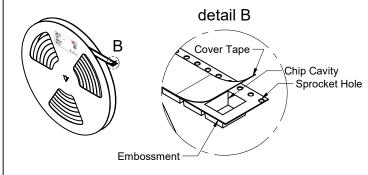


#### Packaging is reffered to the international standard IEC 60286-3:2013

		A0	B0	B1	G	W	T	T1	T2	K0	P0	P1	P2	D0	D1	E1	E2	F	Tape Type 2a	VPE / packaging unit
Tolerance		+0,3	+0,2	max.	min.	±0,3	max.	max.	max.	+0,2	±0,1	$\pm 0,1$	$\pm 0,1$	+0,1	typ.	$\pm 0,1$	min.	typ.		pcs.
Part Number	7/6600/ID	14.20	16.00	20.10	0.75	2/	0.60	0.10	Ω 75	2.5	4.00	16.00	2 00	1.5	1.50	1 75	22.25	11.50	Polyetyrono	500

## Packaging Specification - Reel: [mm]



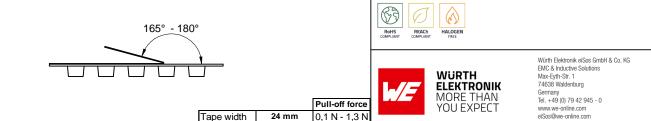


		1-		-						
	A (mm)	B (mm)	(mm)	D (mm)	N (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W3 (mm)	Material
Tolerance	± 2,0	min.	min.	min.	min.	+ 2,0	max.	min.	max.	
Value	330.00	1.50	12.80	20.20	60.00	24.40	30.40	23.90	27.40	Polystyrene

CHECKED

REVISION

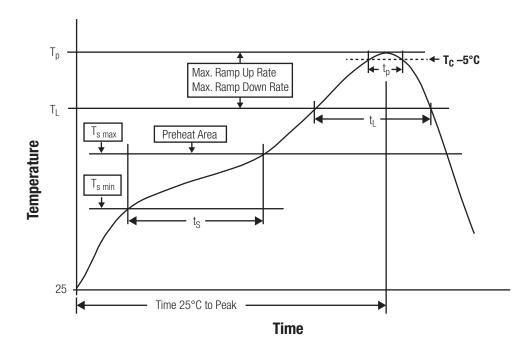
DATE (YYYY-MM-DD)



PROJECTION METHOD SuPe 001.003 2023-07-03 DIN ISO 2768-1m **WP-SMBU REDCUBE SMT** ORDER CODE 7466004R SIZE/TYPE BUSINESS UNIT STATUS PAGE Valid 2/6 Internal through-hole thread eiCan

GENERAL TOLERANCE

# **Classification Reflow Profile for SMT components:**



# **Classification Reflow Soldering Profile:**

Profile Feature		Value
Preheat Temperature Min	T <sub>s min</sub>	150 °C
Preheat Temperature Max	T <sub>s max</sub>	200 °C
Preheat Time $t_s$ from $T_{s  min}$ to $T_{s  max}$	t <sub>s</sub>	60 - 120 seconds
Ramp-up Rate (T <sub>L</sub> to T <sub>P</sub> )		3 °C/ second max.
Liquidous Temperature	$T_L$	217 °C
Time $t_L$ maintained above $T_L$	t <sub>L</sub>	60 - 150 seconds
Peak package body temperature $T_p$		$T_p \le T_c$ , see Table below
Time within 5°C of actual peak temperature		20 - 30 seconds
Ramp-down Rate (T <sub>P</sub> to T <sub>L</sub> )		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

refer to IPC/ JEDEC J-STD-020E

# Package Classification Reflow Temperature (T<sub>c</sub>):

Properties	Volume mm³ <350	Volume mm <sup>3</sup> 350-2000	Volume mm³ >2000
PB-Free Assembly I Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly   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

refer to IPC/ JEDEC J-STD-020E

<b>63</b>	7 6		SuPe	REVISION 001.003	DATE (YYYY-MM-DD) 2023-07-03	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD		<b>⊕</b> -
			WP-SMBU REDCUBE SMT							
l-//5	WÜRTH ELEKTRONIK MORE THAN YOU EXPECT	wu in Elektroline Association a Cut. Ad 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					746	6004R		
			size/TYPE Internal throug	h-hole thread		eiCan	status Valid		1	PAGE 3/6

## **Further information**

## **Component Libraries:**



Altium\_WP-SMBU (22a)



Downloads\_CADENCE\_WP-SMBU (19a)



Eagle\_WP-SMBU (20b)



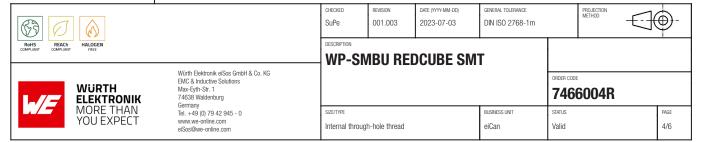
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## **Cautions and Warnings:**

# The following conditions apply to all goods within the product series of REDCUBE SMT of Würth Elektronik eiSos GmbH & Co. KG:

#### General:

- This electromechanical component was designed and manufactured for use in general electronic equipment.
- Würth Elektronik must be asked for written approval (following the PPAP procedure) before incorporating the components into any
  equipment in fields such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control,
  ship control), transportation signal, disaster prevention, medical, public information network, etc. where higher safety and reliability are
  especially required and/or if there is the possibility of direct damage or human injury.
- Electromechanical components that will be used in safety-critical or high-reliability applications, should be pre-evaluated by the customer.
- The component is designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions
  specified in the datasheet are not met, the component may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged.
- The responsibility for the applicability of the customer specific products and use in a particular customer design is always within the authority of the customer.
- Würth Elektronik products are qualified according to international standards. Würth Elektronik does not warrant any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and sustainability over time.

## **Product Specific:**

## Soldering:

- The solder profile must comply with the Würth Elektronik technical soldering specification. All other profiles will void the warranty.
   Surface discoloration due to reflow processing is permitted.
- Wave soldering is not applicable. Reflow soldering is recommended.
- Follow all instructions in the datasheet, especially: Violation of the technical product specifications such as exceeding the nominal rated current will result in loss of warranty.

#### Storage Conditions:

- A storage of Würth Elektronik products for longer than 12 months is not recommended. Therefore, all products shall be used within the
  period of 12 months based on the day of shipment, if not a 100% solderability can't be warranted.
- Do not expose the components to direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time of the components.

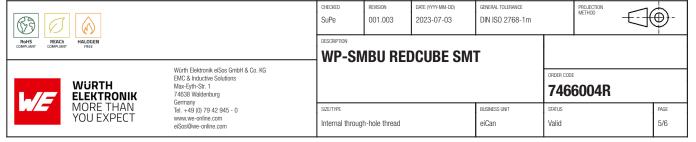
### Packaging:

The packaging specifications apply only to purchase orders comprising whole packaging units. If the ordered quantity exceeds or is
lower than the specified packaging unit, packaging in accordance with the packaging specifications cannot be ensured.

## **Handling:**

- The maximum permissible torques must be complied with to prevent mechanical destruction of the component and PCB
- · Blind hole thread: the dimension of the thread length in the drawing (page 1) defines the minimum screw-in depth of a screw.
- External thread: the dimension of the shaft length in the drawing (page 1) includes the thread run-out. The usable thread length is
  defined by DIN 76-1:2016-08 (Table 1, a1).

These cautions and warnings comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable. However, no responsibility is assumed for inaccuracies or incompleteness.



## **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.

