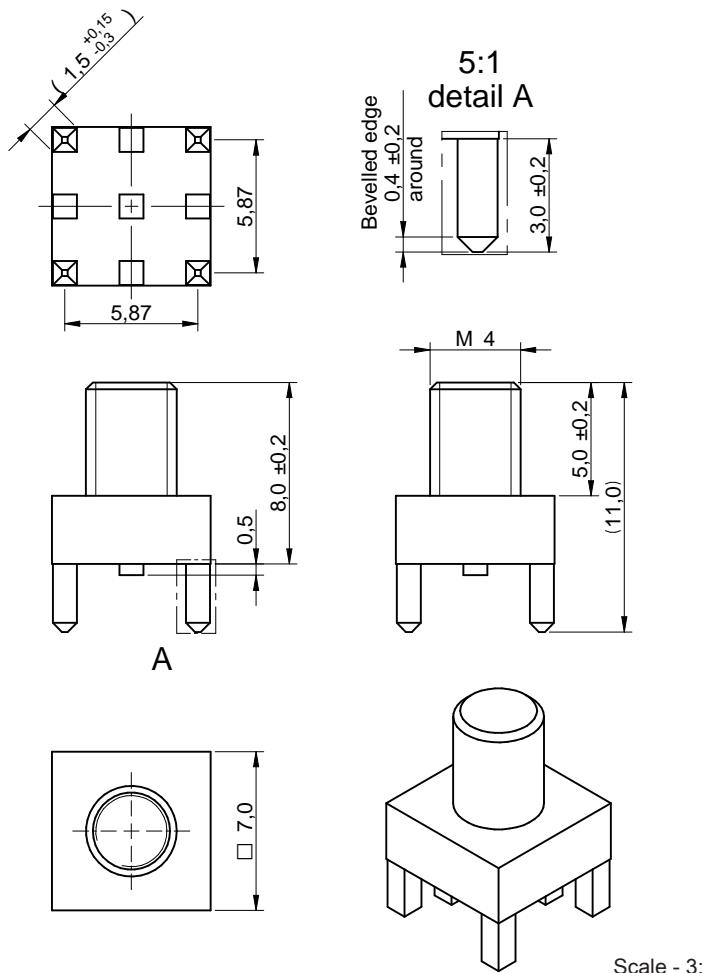


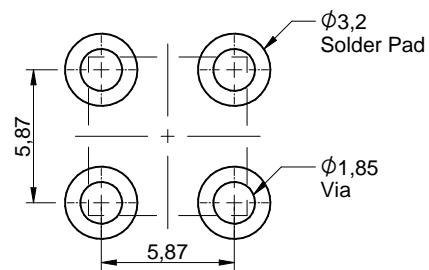
Dimensions: [mm]



Article Properties:

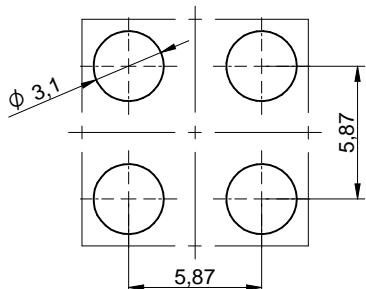
Pins	4
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Recommended Land Pattern: [mm]



Scale - 3:1

Stencil Suggestion:



Scale - 3:1

Properties:

Properties	Test conditions	Value	Unit	Tol.
Material		Brass		
Surface		Tin		
Tightening Torque		1.2	N*m	
Solder Cream Thickness		150	µm	
PCB Thickness min		1.6	mm	
PCB Thickness max		2	mm	
Rated Current	I_R @ 20 °C	50	A	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 [IEC 61249-2-21]
Halogen Free	Conform [JEDEC JS709B]

General Information:

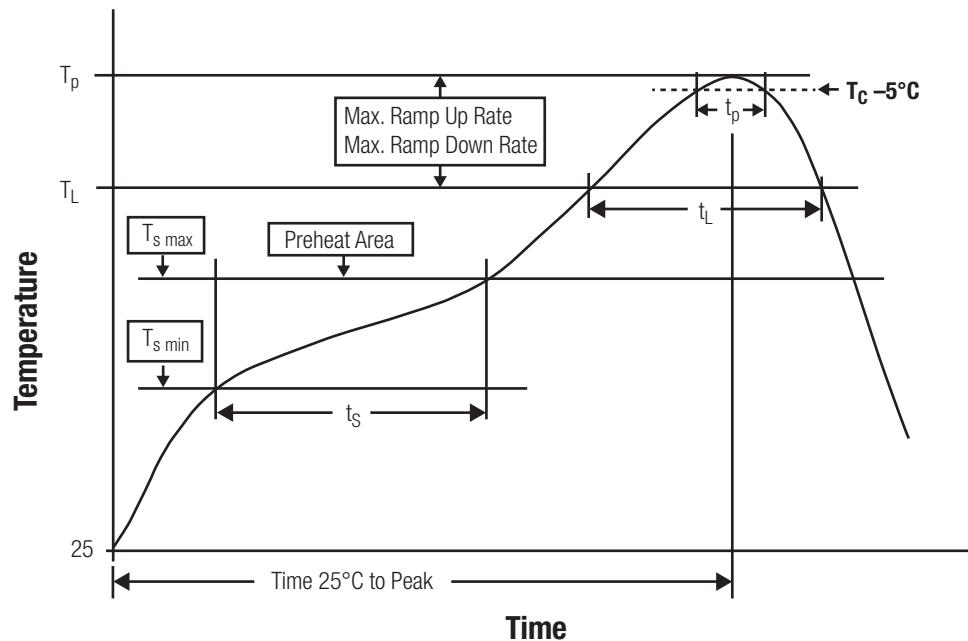
Operating Temperature	-55 up to +150 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Storage Conditions (for single parts)	0 °C up to +40 °C; up to 75 %
Moisture Sensitivity Level (MSL)	1



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CHECKED SuPe	REVISION 002.000	DATE (YYYY-MM-DD) 2020-06-13	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION WP-THRSH REDCUBE				ORDER CODE 74651174
SIZE/TYPE TRH Terminals with external thread				BUSINESS UNIT eiCan
STATUS Valid		PAGE 1/5		

Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature	Value
Preheat Temperature Min	$T_s \text{ min}$ 150°C
Preheat Temperature Max	$T_s \text{ max}$ 200°C
Preheat Time t_s from $T_s \text{ min}$ to $T_s \text{ max}$	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 $T_p \leq T_c$, see Table below
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-020E

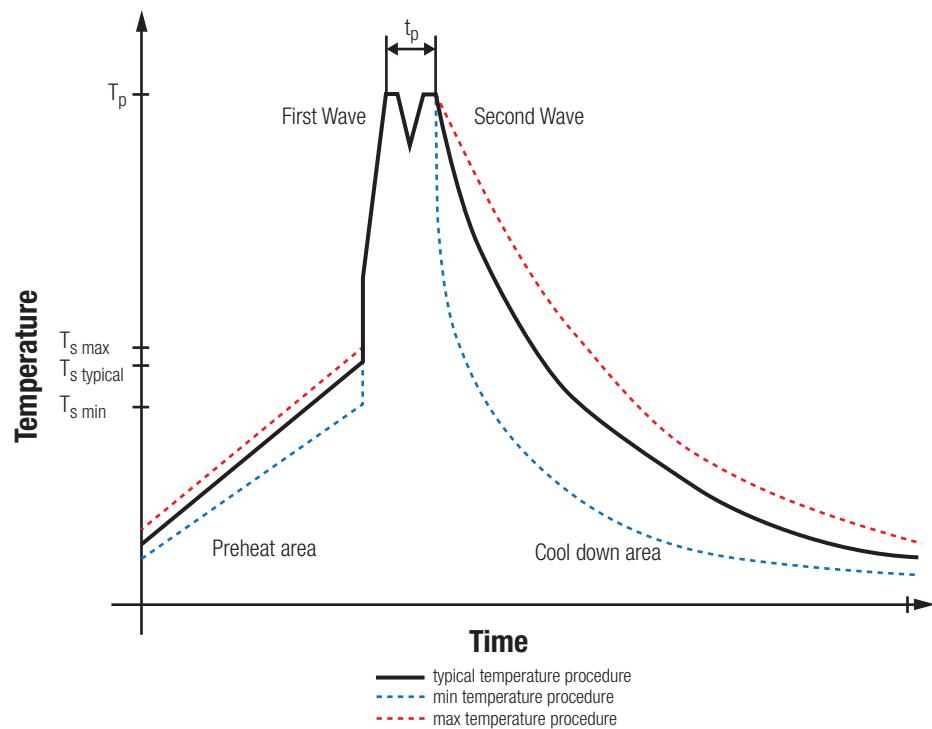
Package Classification Reflow Temperature (T_c):

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

refer to IPC/ JEDEC J-STD-020E

  	<p>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</p> <p>WE WÜRTH ELEKTRONIK</p>	<p>CHECKED SuPe</p> <p>REVISION 002.000</p> <p>DATE (YYYY-MM-DD) 2020-06-13</p> <p>GENERAL TOLERANCE DIN ISO 2768-1m</p> <p>PROJECTION METHOD</p>	<p>DESCRIPTION WP-THRSH REDCUBE</p>	<p>ORDER CODE 74651174</p>
		<p>SIZE/TYPE THR Terminals with external thread</p>	<p>BUSINESS UNIT eiCan</p>	<p>STATUS Valid</p> <p>PAGE 2/5</p>

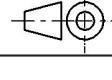
Classification Wave Soldering Profile:



Classification Wave Soldering Profile:

Profile Feature		Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	$T_s \text{ min}$	100 °C	100 °C
Preheat Temperature Typical	$T_s \text{ typical}$	120 °C	120 °C
Preheat Temperature Max	$T_s \text{ max}$	130 °C	130 °C
Preheat Time t_s from $T_s \text{ min}$ to $T_s \text{ max}$	t_s	70 seconds	70 seconds
Ramp-up Rate	ΔT	150 °C max.	150 °C max.
Peak Temperature	T_p	250 °C - 260 °C	235 °C - 260 °C
Time of actual peak temperature	t_p	max. 10 seconds max. 5 seconds each wave	max. 10 seconds max. 5 seconds each wave
Ramp-down Rate, Min		~ 2 K/second	~ 2 K/second
Ramp-down Rate, Typical		~ 3.5 K/second	~ 3.5 K/second
Ramp-down Rate, Max		~ 5 K/second	~ 5 K/second
Time 25 °C to 25 °C		4 minutes	4 minutes

refer to EN1760-1:2006

  	CHECKED SuPe DESCRIPTION WP-THRSH REDCUBE	REVISION 002.000 DATE (YYYY-MM-DD) 2020-06-13	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
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Cautions and Warnings:

The following conditions apply to all goods within the product series of WP-THRSH of Würth Elektronik eiSos GmbH & Co. KG:

General:

- This electronic component is designed and developed with the intention for use in general electronics equipment.
- Before incorporating the components into any equipment in the field such as 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 or if there is possibility of direct damage or injury to human body, Würth Elektronik must be asked for a written approval.
- In addition, even electronic component in general electronic equipment, when used in electrical circuits that require high safety, reliability functions or performance, the sufficient reliability evaluation-check for the safety must be performed by the user before usage.
- The electronic component is designed and manufactured to be used within the datasheet specified values.
- Do not use the electronic component outside the datasheet specifications.
- Prevent any damage or scratches on the electronic component.
- Direct mechanical impact to the electronic component shall be prevented.
- 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. All technical specification for standard products do also apply to customer specific products.

Product specific:

Soldering:

The solder profile must comply with the WE technical soldering specification, otherwise this will void the warranty. The via has to be filled completely with solder paste before reflow soldering. Hot-air reflow is recommended. Other soldering methods are not verified and have to be validated by the customer at his own risk.

Cleaning and washing:

REDCUBE WP-THRSH parts are not constructed for washing, so washing can cause malfunction afterwards.

Cleaning agent that are used to clean the customer applications might damage or change the characteristics of the component, body, screw thread and pins.

Please do not submerge our washable products into water or cleaning agents or put them in locations exposed to water completely.

When cleaning by hand (brushing), please do not use excessive force on the electronic component to avoid malfunction afterwards, because customer could deform function relevant areas.

We recommended a solution without organic acid (preserve the plating against corrosion) volatile, without residues and compatible with the plastic.

We recommend to perform tests and to let a part in immersion in the solution 8 to 12 hours and see if there is a degradation.

Storage conditions:

REDCUBE WP-THRSH are considered MSL1 into closed original packaging and are not subject to storage time limits regarding the moisture sensitivity but 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 warranted.

Handling:

Do not repeatedly operate the WP-THRSH with excessive force. It may damage or deforms the component, body, screw thread or pins which results in malfunction. Violation of the technical product specifications such as exceeding the nominal rated current will result in loss of warranty. The maximum permissible torques must be complied with to prevent mechanical destruction of the electronic component and PCB.

In the case a product requires particular handling precautions, in addition to the general recommendations mentioned here before, these will appear on the product datasheet.

 RoHS COMPLIANT	 REACH COMPLIANT	 HALOGEN FREE	CHECKED SuPe	REVISION 002.000	DATE (YYYY-MM-DD) 2020-06-13	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
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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.

 RoHS COMPLIANT	 REACH COMPLIANT	 HALOGEN FREE	CHECKED SuPe	REVISION 002.000	DATE (YYYY-MM-DD) 2020-06-13	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
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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, помошь 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 помошь 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

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