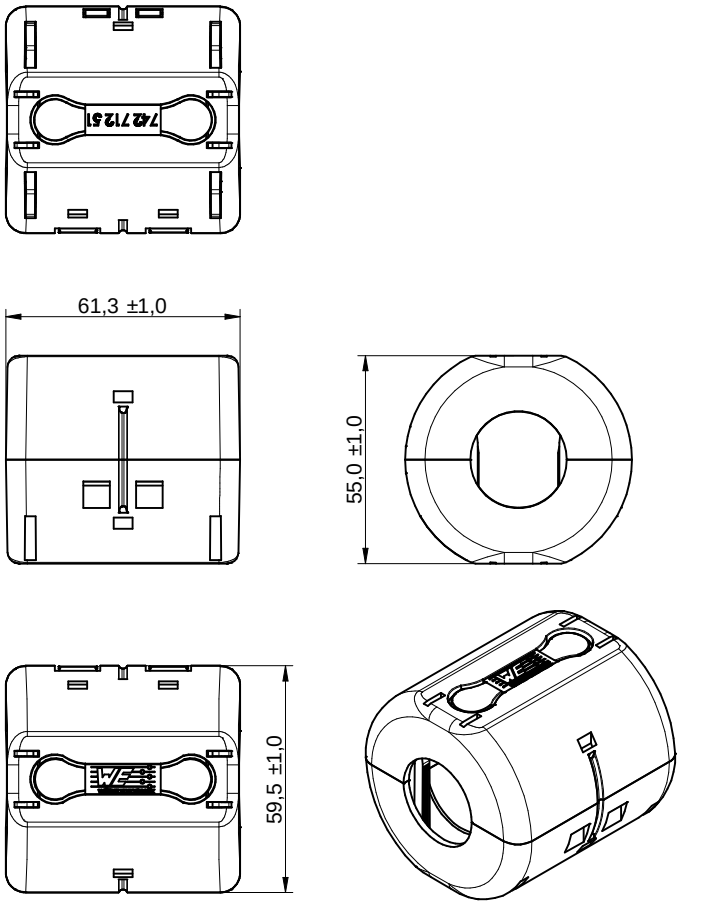
Dimensions: [mm]

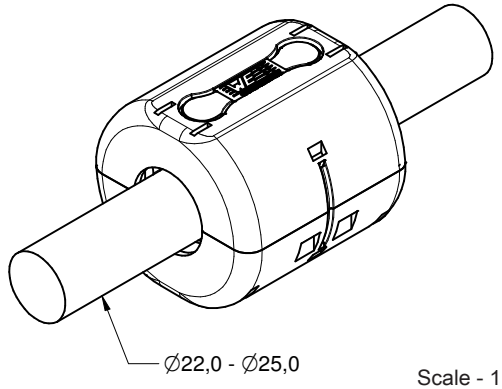


Scale - 1:2

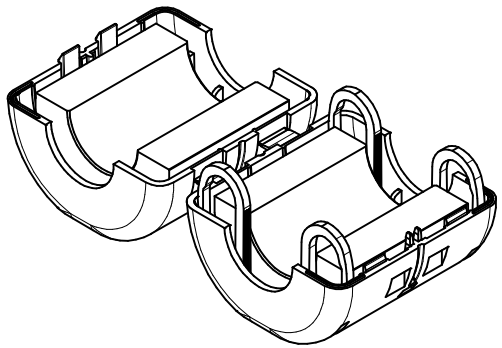
Additional Features:

Safety Key to unlock	74271

Applicable Cable Diameter: [mm]



Scale - 1:2



Scale - 1:2

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Impedance @ 25 MHz 1 turn	Z	Test cable: AWG26, 150 mm	270	Ω	±25%
Impedance @ 100 MHz 1 turn	Z	Test cable: AWG26, 150 mm	420	Ω	±25%
Impedance @ 25 MHz 2 turns	Z	25 MHz	1249	Ω	typ.
Impedance @ 100 MHz 2 turns	Z	100 MHz	836	Ω	typ.

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]

General Information:

Temperature during mounting process	+15 °C up to +35 °C
Operating Temperature	-50 °C up to +105 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Storage Conditions (for single parts)	15 °C up to + 35 °C; 45 % up to 65 % RH
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	

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www.we-online.com
eiSos@we-online.com

CHECKED	REVISION	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
NFi	002.002	2024-04-29	DIN ISO 2768-1c	

DESCRIPTION

WE-STAR-TEC Snap Ferrite with safety key technology

ORDER CODE

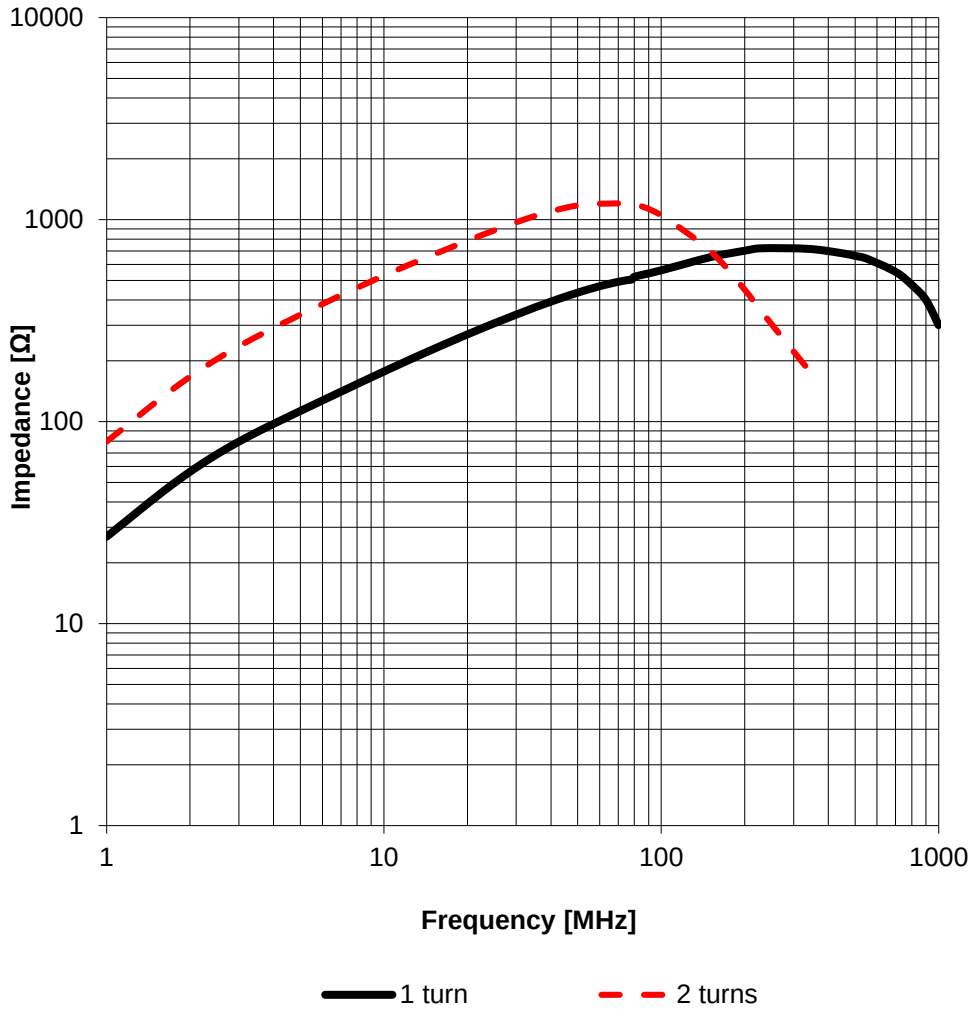
74271251

BUSINESS UNIT	STATUS	PAGE
eiSos	Valid	1/7

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, 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.

Properties		Value	Unit	Tol.
Material	91101004			
Initial Permeability	μ_i	620		typ.
Curie Temperature	T_C	150	°C	typ.
Plastic Housing Color	Grey			
Plastic Housing Flammability Rating	UL94 V-0			
Test Cable	AWG26			
Test Cable Length		150	mm	
Cable Diameter		22 - 25	mm	

Typical Impedance Characteristics:



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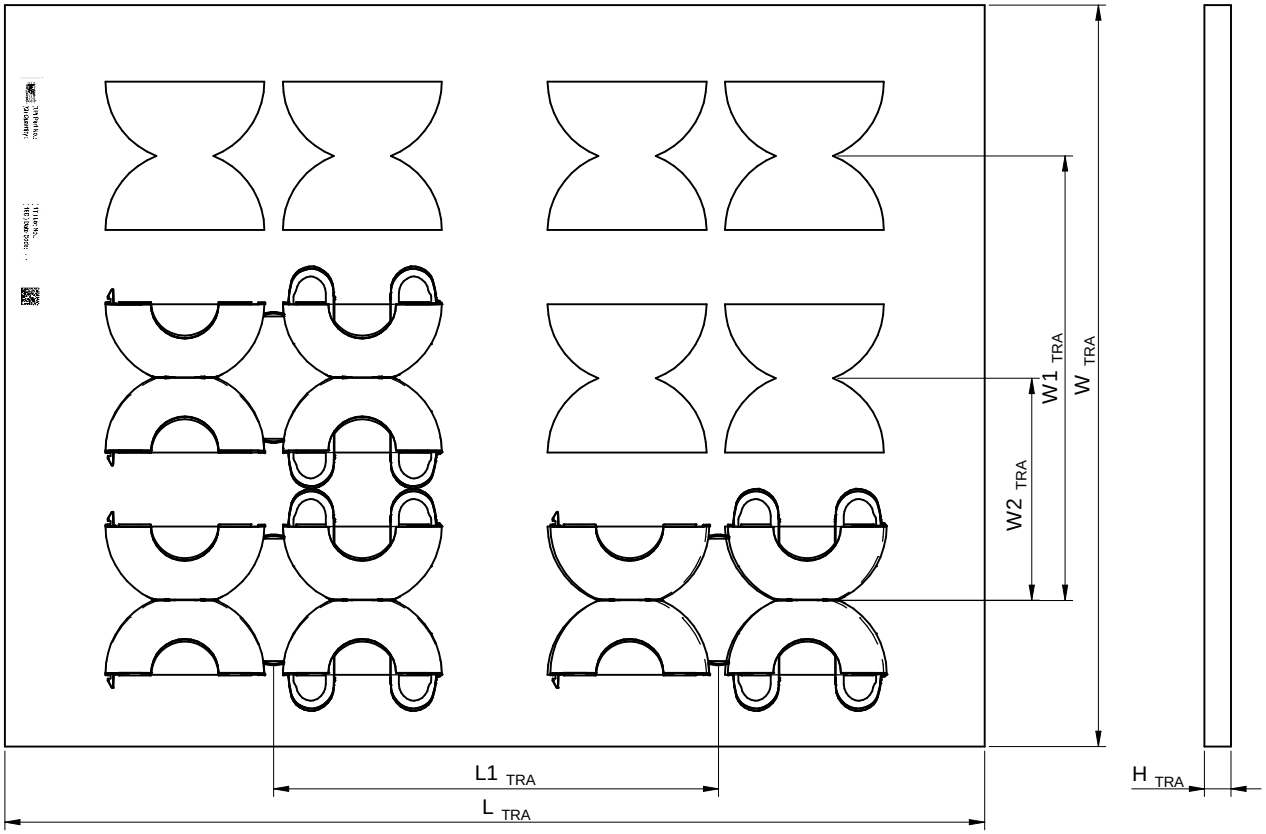
DESCRIPTION
WE-STAR-TEC Snap Ferrite with safety key technology

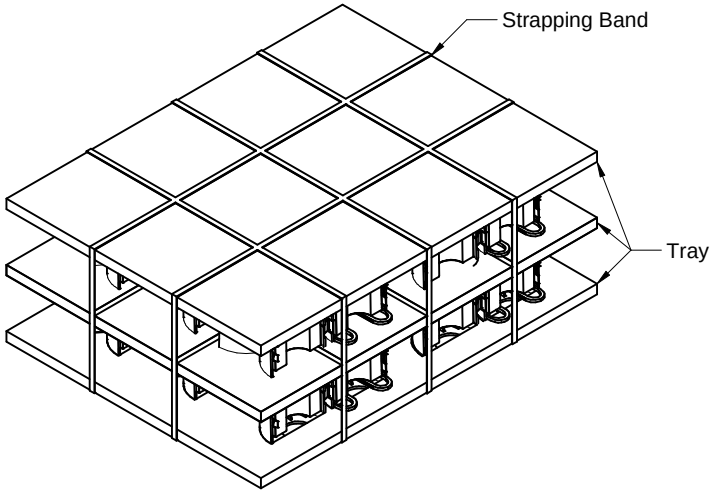
ORDER CODE
74271251

BUSINESS UNIT	STATUS	PAGE
eiSos	Valid	2/7

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Packaging Specification - Tray: [mm]





L_{TRA} (mm)	$L1_{TRA}$ (mm)	W_{TRA} (mm)	$W1_{TRA}$ (mm)	$W2_{TRA}$ (mm)	H_{TRA} (mm)	Packaging >br> Unit	Material
typ.	typ.	ref.	ref.	ref.	typ.	pcs.	
370,00	167,00	280,00	168,00	84,00	10,00	12	Paper

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NFi	002.002	2024-04-29	DIN ISO 2768-1c	

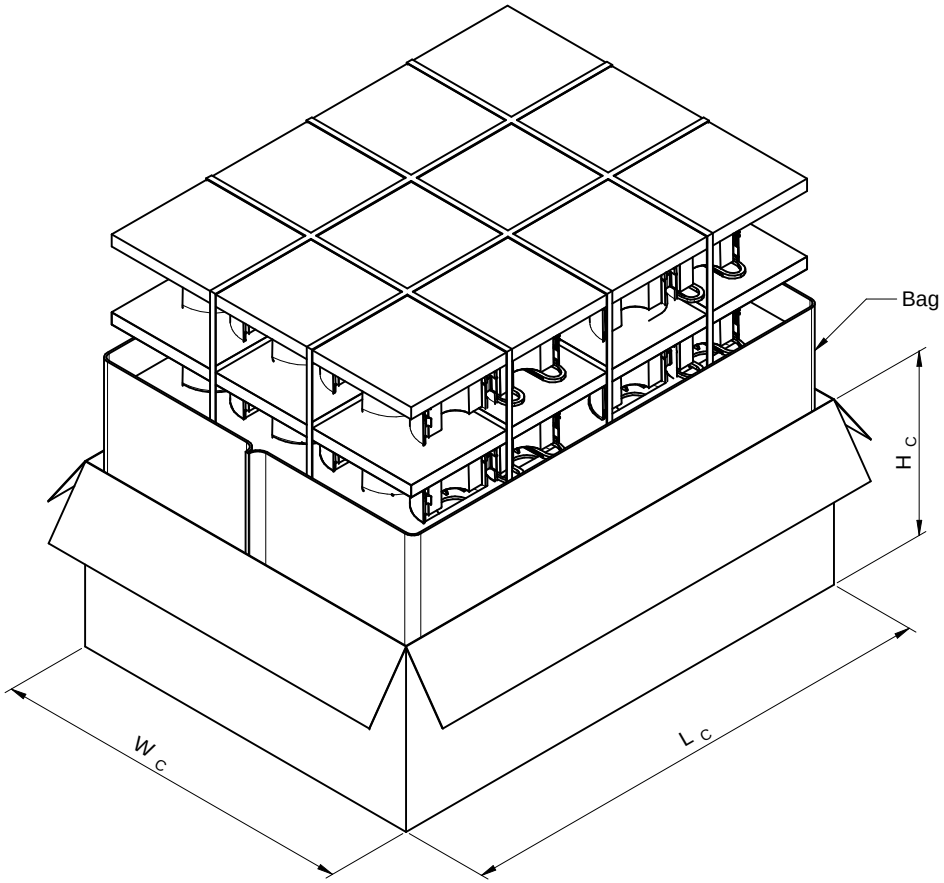
DESCRIPTION
WE-STAR-TEC Snap Ferrite with safety key technology

ORDER CODE
74271251

BUSINESS UNIT	STATUS	PAGE
eiSos	Valid	3/7

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Packaging Specification - Outer Carton: [mm]



	L_C (mm)	W_C (mm)	H_C (mm)	No. of Tray (pcs.)	Qty. (pcs.)	Material
Tolerance	typ.	typ.	typ.			
Value	400	300	163	3	24	Paper

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CHECKED	REVISION	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
NFi	002.002	2024-04-29	DIN ISO 2768-1c	

DESCRIPTION
WE-STAR-TEC Snap Ferrite with safety key technology

ORDER CODE
74271251

BUSINESS UNIT	STATUS	PAGE
eiSos	Valid	4/7

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, 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.

Further information

Component Libraries:

Download_IGS_StarTec-74271251

Download_STP_StarTec-74271251

Related Products:

- Safety Key: 74271

Free Sample Order:

Order free samples of this article directly here!

Tutorials:

- WE-Standard 1581 (PDF)
- Applications of EMC Components (PDF)
- Applications of EMC Components (PDF)

REDEXPERT:

Determine attenuation for 74271251 in REDEXPERT

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DESCRIPTION
WE-STAR-TEC Snap Ferrite with safety key technology

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BUSINESS UNIT	STATUS	PAGE
eiSos	Valid	5/7

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Cautions and Warnings:

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

General:

- This electronic component is 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.
- Electronic 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 wire insulation may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged.
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth Elektronik does not warrant any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and sustainability over time.
- 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 specifications for standard products also apply to customer specific products.

Product specific:

Cleaning and Washing:

- Washing agents used during the production to clean the customer application might damage or change the characteristics of the component. Washing agents may have a negative effect on the long-term functionality of the product.

Potting:

- If the product is potted in the customer application, the potting material might shrink or expand during and after hardening. Shrinking could lead to an incomplete seal, allowing contaminants into the core. Expansion could damage the components. We recommend a manual inspection after potting to avoid these effects.

Storage Conditions:

- A storage of Würth Elektronik products for longer than 12 months is not recommended. The material characteristics of the electronic components create a limiting factor for the storage stability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components into direct sunlight.
- The storage condition in the original packaging is defined according to DIN EN 61760-2.
- The packaging of the products (Moisture Impermeable Bag) is to maintain the required moisture level of the plastic housings. To ensure this moisture level, the product either has to be stored in the original sealed packaging or needs to be stored in a humidity and temperature controlled storage room. Otherwise, the product may lose the required moisture level and its mechanical properties. In this case, you can re-condition the products according to the internal standard WE-Standard 1581 to ensure the required moisture level in the plastic.
- For further information about this internal standard please refer to the document 'WE-Standard 1581' which can be downloaded from the respective product page on our website.
- 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:

- Violation of the technical product specifications such as exceeding the maximum outer diameter of the cable will void the warranty.
- The usage in acidly as well as salted environment can be the reason for oxide (rust) at the surface of the ferrite body, damage or changes to the characteristics of the material. The acidly or salted environment could have a negative effect on the long term function of the product.
- To ensure the operating mode of the product, the ambient temperature at processing (when the part will be mounted on the cable) has to be in the range of 15 to 35 °C. Before mounting, the part should be stored for one hour under this condition.
- The temperature rise of the component must be taken into consideration. The operating temperature is comprised of ambient temperature and temperature rise of the component.The operating temperature of the component shall not exceed the maximum temperature specified.

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.

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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.

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NFi	002.002	2024-04-29	DIN ISO 2768-1c	

DESCRIPTION
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ORDER CODE
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BUSINESS UNIT	STATUS	PAGE
eiSos	Valid	7/7

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Unikeyic Electronics

Global Electronic Components Distributor

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140816144200 665102131822 687750225002 865080457015 971100477 64900821122 744052002 7443633300 810912012 74408942330 782963560 830003237 560112110188 64900221122 714726110106 830032817 687640141002 74437529203220 74438334022 860080275016 865230657014 620307124022 744393665015 78438335033HT 560112110239 636201040300 686124183822 71206415 784773147 810913006