## Dimensions: [mm]

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

## **Electrical Properties:**

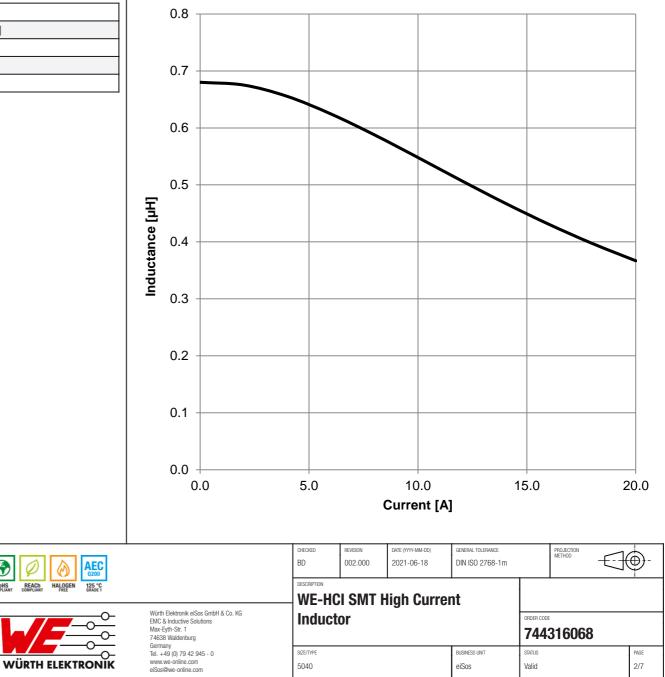
$ \frac{1}{10000000000000000000000000000000000$				• •						
$ \frac{1}{10000000000000000000000000000000000$					Properties		Test conditions	Value	Unit	Tol.
$ \frac{1}{10000000000000000000000000000000000$					Inductance	L	100 kHz/ 100 mV	0.68	μH	±20%
$\frac{1}{205 \pm 0.3}$ $\frac{1}{205 \pm$			16		Rated Inductan	ice L <sub>R</sub>	100 kHz/ 100 mV/ 12.7	5 A 0.49	μH	typ.
$\frac{1}{205 \pm 0.3}$ $\frac{1}{205 \pm$					Rated Current	I <sub>R</sub>	ΔT = 50 K	12.75	A	max.
$\frac{1}{2 \cdot 65 \cdot 60 \cdot 3}$	[5,6 <sup>±</sup> ] <sup>−</sup>				Performance Ra Current <sup>1)</sup>	ated I <sub>RP,40</sub>	< ΔT = 40 K	16	A	max.
						rent @ I <sub>SAT, 10</sub>	<sub>%</sub> ΙΔL/LI < 10 %	7	A	typ.
Scale - 4:1       Scale - 4:1					Saturation Curro	rent @	<sub>%</sub> ΙΔL/LI < 30 %	13.5	A	typ.
Image: Scale - 41       Scale	53+03				DC Resistance	R <sub>DC</sub>	@ 20 °C	4	mΩ	±10%
Schematic:     Image: Conditions of Destrict Progeneties (conditions of Destrict Progeneties (condit				Scale - 4:1		f <sub>res</sub>		253	MHz	typ.
Schematic:     Image: Conditions of Destrict Progeneties (conditions of Destrict Progeneties (condit		OF			<sup>1)</sup> refer to IEC 6202	24-2-2020				
Image: Notice State Code       Add up to +100 °C         Image: Notice State Code       Image: Notice State Code         Image: Notice State Code       Notice State Code		4		·	Conoral Inf	ormation				
Image: Construction of Performance Rate Ourset: refer to IEC 82024-2; Cass Di PCB Coper V         Marking:         Marking: <td< th=""><th></th><th></th><th></th><th></th><th>General III</th><th>ormation:</th><th>i</th><th></th><th></th><th></th></td<>					General III	ormation:	i			
Marking       Marking       < 40 °C; < 75 % RH         Scale - 4:1       Moisture Sensitivity Level (MSL)       1         Scale - 4:1       Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently         Test conditions of Performance Rated Current: refer to EC 62024-2; Class D (PCB Copper V 40 mm; PCB Copper Thickness: 1000 µm)       Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently         Test conditions of Performance Rated Current: refer to EC 62024-2; Class D (PCB Copper V 40 mm; PCB Copper Thickness: 1000 µm)       Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently         Marking       R68 (Inductance Code)       Test conditions of Performance Rated Current: refer to EC 62024-2; Class D (PCB Copper V 40 mm; PCB Copper Thickness: 1000 µm)       Test conditions.         Warking       R68 (Inductance Code)       Image:						erature (referrin	<b>9</b> -4	0 up to +100 °C		
Marking       Marking       < 40 °C; < 75 % RH         Scale - 4:1       Moisture Sensitivity Level (MSL)       1         Scale - 4:1       Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently         Test conditions of Performance Rated Current: refer to EC 62024-2; Class D (PCB Copper V 40 mm; PCB Copper Thickness: 1000 µm)       Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently         Test conditions of Performance Rated Current: refer to EC 62024-2; Class D (PCB Copper V 40 mm; PCB Copper Thickness: 1000 µm)       Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently         Marking       R68 (Inductance Code)       Test conditions of Performance Rated Current: refer to EC 62024-2; Class D (PCB Copper V 40 mm; PCB Copper Thickness: 1000 µm)       Test conditions.         Warking       R68 (Inductance Code)       Image:		an iller		$\sim$	<b>Operating Temp</b>	perature	-4	0 up to +150 °C		
Marking       R68 (nductance Code)         Marking       R68 (nductance Code)             With Balance Accode       Minipute Accode Action Actio						ions (in origina	< 4	0°C;< 75% RH		
Scale - 4:1       Scale - 4:1         Product Marking:       Marking       R68 (Inductance Code)         Marking       R68 (Inductance Code)         With Edefone leSos mitH & 0.0 KS       Marking         Marking       Marking         Ma					Moisture Sensit	tivity Level (MS	L)	1		
Scale - 4:1       Temperature rise is highly dependent on many factors including PCB land pattern, trace size proximity to other components. Therefore, temperature rise should be verified in application conditions.         Marking       R68 (Inductance Code)         Image: R68 (Inductance Code)       Image: R68 (Inductance Code)<					Test conc	ditions of Electric	al Properties: +20 °C, 33 %	RH if not specified o	lifferently	l.
Product Marking:       Temperature rise is highly dependent on many factors including PCB land pattern, trace size proximity to other components. Therefore, temperature rise should be verified in application conditions.         Marking       R68 (Inductance Code)         Marking       Norther Components. Therefore, temperature rise should be verified in application conditions.         Marking       Norther Components. Therefore, temperature rise should be verified in application conditions.         Marking       Norther Components. Therefore, temperature rise should be verified in application conditions.         Marking       Norther Components. Therefore, temperature rise should be verified in application conditions.         Marking       Norther Components. Therefore, temperature rise should be verified in application conditions.         Marking       Norther Components. Therefore, temperature rise should be verified in application conditions.         Marking       Norther Components. Therefore, temperature rise should be verified in application conditions.         Marking       Norther Components. Therefore, temperature rise should be verified in application conditions.         Marking       Norther Components. Therefore, temperature rise should be verified in application conditions.         Marking       Norther Components. Therefore, temperature rise should be verified in application conditions.         Marking       Norther Components. Therefore, temperature rise should be verified in application condit condit conditions. <t< th=""><th></th><th>Scale - 4:1</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>		Scale - 4:1								
Image: Construction of the co	Product Marking:				Temperature rise proximity to o	e is highly depen other component:	dent on many factors includi Therefore, temperature rise conditions.	ng PCB land pattern should be verified	, trace siz in applica	ze, and ation
BD 002.000 2021-06-18 DIN ISO 2768-1m BD 002.000 2021-06-18 DIN ISO 2768-1m WE-HCI SMT High Current Inductor F44316068 SZETYPE BUSINESS UNIT STATUS	Marking	R68 (Inductance Code)			CHECKED RE	REVISION DATE (YY	(-MM-DD) GENERAL TOLERANCE	PROJECTION		
Bettisk     Beschertisk       Beschertisk     Haugeen       Utility     Bektronik elSos GmbH & Co. KG EMC & Linductive Solutions Max Linductive Solutions Germany Tel. +49 (0) 79 42 945 - 0     Würth Elektronik elSos GmbH & Co. KG EMC & Linductive Solutions Max Linductive Solutions EMC & Linductive Solutions Germany Tel. +49 (0) 79 42 945 - 0     Description     WE-HCI SMT High Current Inductor     Order code 7443160688								METHOD	-	⊕-
WE-HCI SMT High Current Inductor WE-HCI SMT High Current Inductor WE-HCI SMT High Current Inductor 744316068 SZZ/TYPE BUSINESS UNIT SVALUE					DESCRIPTION					
EMC & Inductive Solutions Max Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 SZE/TYPE BUSINESS UNIT STATUS					WE-HCI	<b>SMT High</b>	Current			
74638 Waldenburg Germinut         74638 Waldenburg Serrive         7443 T0008           9         9         9           9         9         9           9         9         9           9         9         9           9         9         9           9         9         9           10         14         9           10         9         9           10         9         9           10         9         9           10         9         9           10         9         9           10         9         9           10         9         9           10         9         9           10         9         9           10         9         9           10         9         9           10         9         9           10         9         9           11         14         9           12         10         9           13         10         10           14         10         10           14         10         10				EMC & Inductive Solutions						
Tel. +49 (0) 79 42 945 - 0 SZETYPE BUSINESS UNIT STATUS				74638 Waldenburg			744316068			
										PAGE
WÜRTH ELEKTRONİKwww.we-online.com elSos@we-online.com5040elSosValid					5040		elSos	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 elSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik elSos 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.

### **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]
Component Qualification	AEC-Q200 Grade 1

**Typical Inductance vs. Current Characteristics:** 



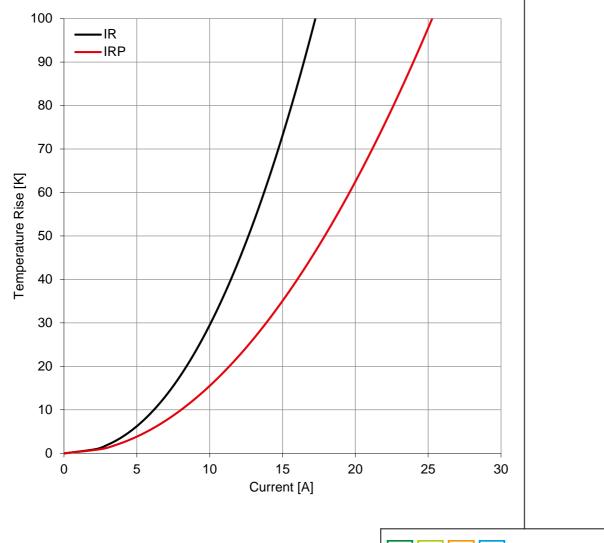
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3

RoHS

REACh

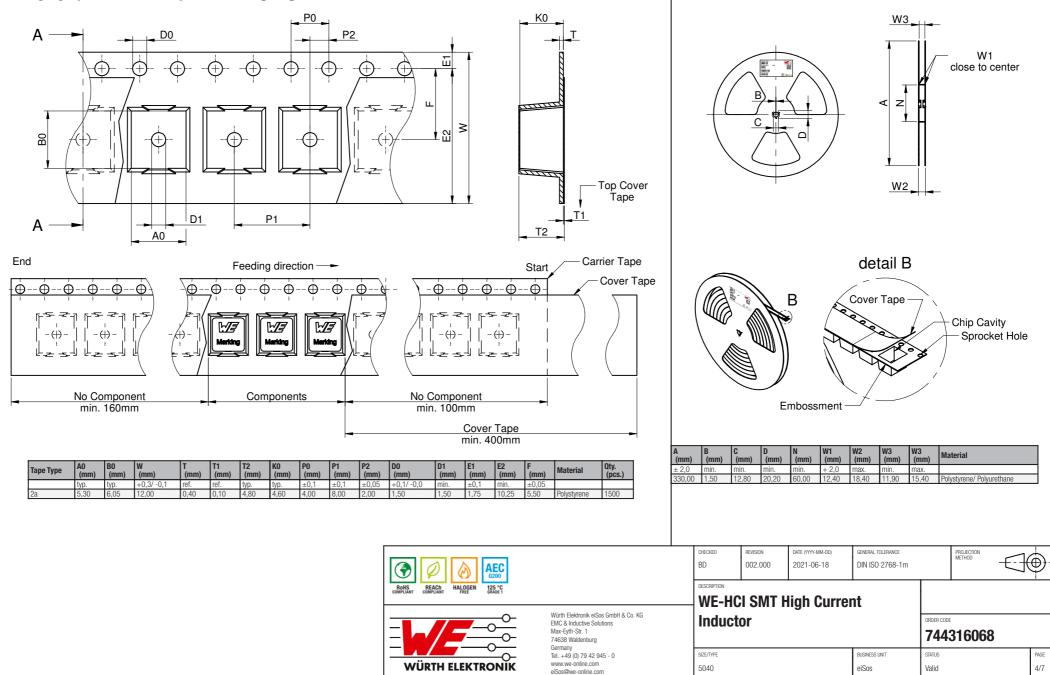
## **Typical Temperature Rise vs. Current Characteristics:**



		CHECKED	002.000	DATE (YYYY-MM-DD) 2021-06-18	GENERAL TOLERANCE DIN ISO 2768-1m	_		<del>]@</del> -
RoHS REACH HALOGEN 125 °C GRADE1		DESCRIPTION	CI SMT H	ligh Curre	nt			
	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany	Induct	or			ORDER CODE	316068	
	elinany () 79 42 945 - 0 www.we-online.com elSos@we-online.com	size/type 5040			BUSINESS UNIT eiSos	status Valid		PAGE 3/7

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



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 Warth Elektronik elSos GmbH & Co Kg products are netliner designed nor intended for use in equipment which is used in elevation intended 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 Warth Elektronik elSos GmbH & Co KG must be informed on every electronic component which is used in elevatival crucial the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every elevationic component which is used in elevatival crucial that require high astel elevatival require high astel elevatival to cause elevatival elevatival that and the elevatival elev

## **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 $\rm t_s$ from $\rm T_{s\ min}$ to $\rm T_{s\ max}$	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	TL	217 °C
Time $t_L$ maintained above $T_L$	tL	60 - 150 seconds
Peak package body temperature	Т <sub>р</sub>	$T_p \le T_c$ , see Table below
Time within 5°C of actual peak temperature	t <sub>p</sub>	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 mm <sup>3</sup> <350	Volume mm <sup>3</sup> 350-2000	Volume mm <sup>3</sup> >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

		CHECKED BD	REVISION 002.000	DATE (YYYY-MM-DD) 2021-06-18	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	<b> </b>
Rohs REACH HALOGEN 125 °C COMPLIANT COMMIANT FREE GRADE 1				ligh Curre	nt			
	Würft Belktronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany	Induct	or			ORDER CODE	316068	
	Tel. +49 (0) 79 42 945 - 0	SIZE/TYPE 5040			BUSINESS UNIT eiSos	status Valid		page 5/7

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## **Cautions and Warnings:**

# The following conditions apply to all goods within the product series of WE-HCl 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:**

#### Soldering:

- The solder profile must comply with the technical product specifications. All other profiles will void the warranty.
- All other soldering methods are at the customers' own risk.
- Strong forces which may affect the coplanarity of the components' electrical connection with the PCB (i.e. pins), can damage the part, resulting in avoid of the warranty.

#### **Cleaning and Washing:**

- Washing agents used during the production to clean the customer application might damage or change the characteristics of the wire
  insulation, marking or plating. Washing agents may have a negative effect on the long-term functionality of the product.
- Using a brush during the cleaning process may break the wire due to its small diameter. Therefore, we do not recommend using a brush during the PCB cleaning process.

#### 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 component. 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. Within other effects, the terminals may suffer degradation, resulting in bad solderability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- 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:

- Violation of the technical product specifications such as exceeding the nominal rated current will void the warranty.
- Applying currents with audio-frequency signals may result in audible noise due to the magnetostrictive material properties.
- 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.

		CHECKED	REVISION 002.000	DATE (YYYY-MM-DD) 2021-06-18	general tolerance DIN ISO 2768-1m		PROJECTION METHOD		€-
ROHS REACH HALOGEN 125 °C ORADE1		DESCRIPTION	I SMT H	ligh Currer	nt				
	Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany	Inducto	or			ORDER CODE	316068		
	einiany Tell. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 5040			BUSINESS UNIT eiSos	status Valid		1	PAGE 6/7

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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 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.

		CHECKED BD	REVISION 002.000	DATE (YYYY-MM-DD) 2021-06-18	GENERAL TOLERANCE DIN ISO 2768-1m	_	PROJECTION METHOD	
ROHS REACH HALOGEN 125 °C GRADE 1		DESCRIPTION	I SMT H	ligh Curre	nt			
	Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg	Induct	or			ORDER CODE	316068	
	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 5040			BUSINESS UNIT eiSos	status Valid		PAGE 7/7

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