Ø 1,2 ß ĥ 5,9 5,9 14.7 ±0.5 **Certification: RoHS Approval** 14,7 Compliant [2011/65/EU&2015/863] **REACh Approval** Conform or declared [(EC)1907/2006] 20,5 max. min. 3,0 ±0,5 0 Scale - 2:1 Schematic: typ. 0 0,8 ref. ъ, max. ရ Ó Scale - 2:1 RoHS REACH 125 °C GRADE 1 WE-KUII Kod Core Inductor THT Würth Elektronik eiSos GmbH & Co. KG ORDER CODE EMC & Inductive Solutions Max-Eyth-Str. 1 7847121060 74638 Waldenburg Germany STATUS Tel. +49 (0) 79 42 945 - 0 www.we-online.com BUSINESS UNIT PAGE WÜRTH ELEKTRONIK eiSos Valid 1/7 eiSos@we-online.com

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 Wurth Elektronik elSos GmbH & Co KG must be information intended for use in equipment where a higher safety standard and reliability 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 Wurth Elektronik elSos GmbH & Co KG must be information intended for use in equivalent 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 Wurth Elektronik elSos GmbH & Co KG must be information network etc.. Wurth Elektronik elSos GmbH & Co KG must be information intended to use is electronic component which is used in electrical circuits there adjust high standard is especially executed an electronic component which is used in electrical circuits there are electrical circuits ther

Recommended Hole Pattern: [mm]

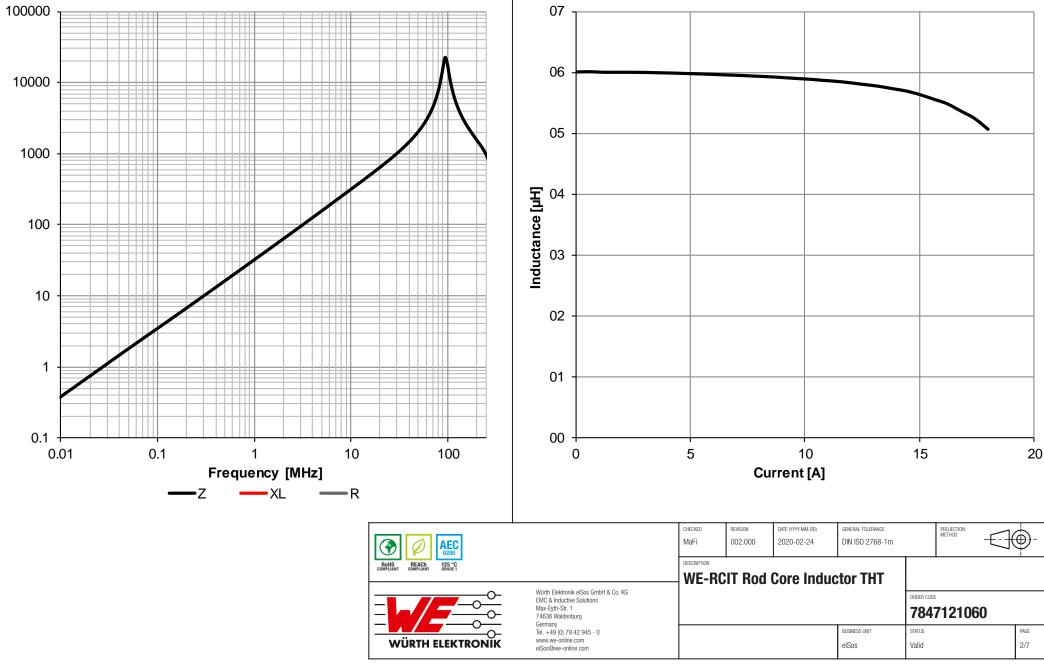
Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	0.25 V/ 100 kHz	6	μH	±25%
Rated Current	I _R	$\Delta T = 40 \text{ K}$	6.4	Α	max.
Saturation Current	I _{SAT}	ΙΔL/LI < 10 %	15	A	typ.
DC Resistance	R _{DC}	@ 20 °C	11.7	mΩ	±20%
Self Resonant Frequency	f _{res}		11.7	MHz	

	neral Ir					ot exceed +150°C under worst				
				са	se conditions					
Ambient Temperature (referring to I _R)				-40 up to +110 °C						
Ope	erating Ter	nperature		-40 up to +150 °C						
	orage Cond ckaging)	itions (in c	original		< 40 °C	; < 75 % RH				
Мо	isture Sen	sitivity Lev	vel (MSL)			1				
	Test co	onditions of	Electrical Pro	opertie	es: +20 °C, 33 % RH if	not specified differently				
	CHECKED	REVISION	DATE (YYYY-MM-DD	0)	GENERAL TOLERANCE	PROJECTION				

Typical Impedance Characteristics:

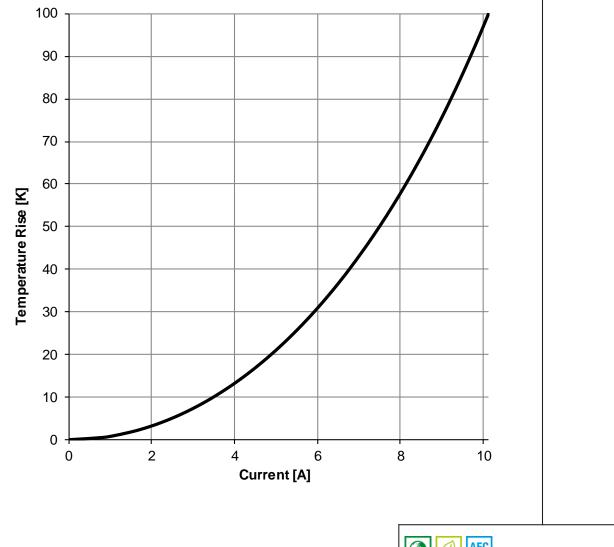
Impedance $[\Omega]$



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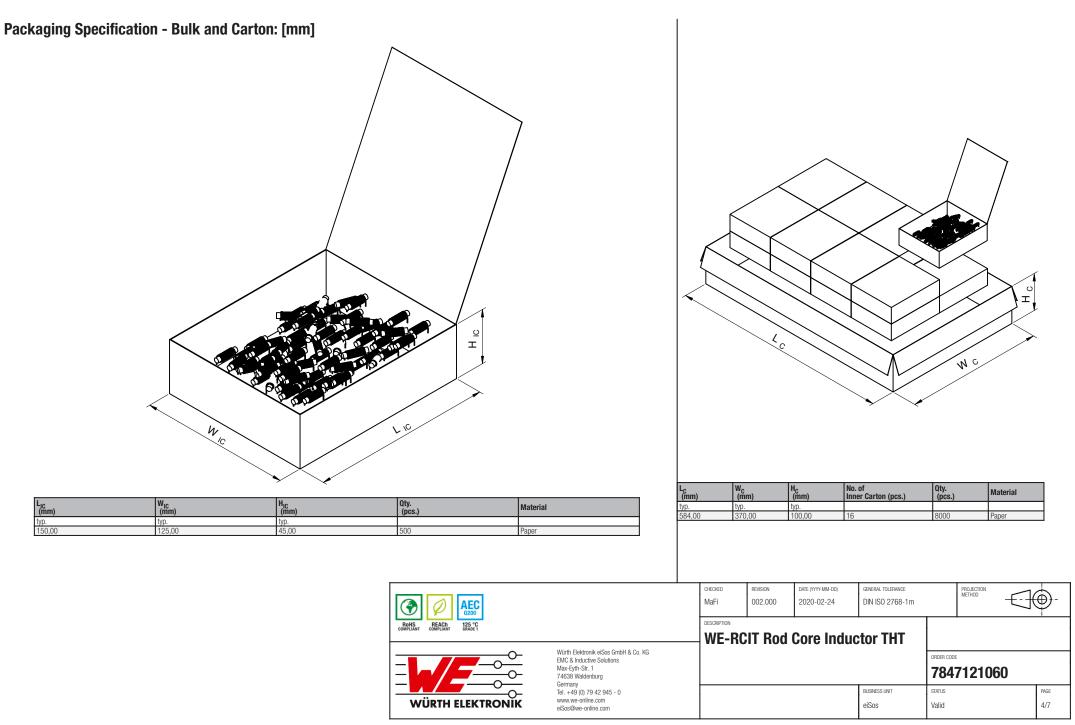
Typical Inductance vs. Current Characteristics:

Typical Temperature Rise vs. Current Characteristics



		MaFi	REVISION 002.000	DATE (YYYY-MM-DD) 2020-02-24	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	-
RaHS REACH 125 °C COMPLIANT COMPLIANT		DESCRIPTION	IT Rod	Core Induc	tor THT			
Würth Elektonik elsos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany						ORDER CODE 7847	121060	
	Fil. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com				BUSINESS UNIT eiSos	status Valid		PAGE 3/7

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 not authorized for use in 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 must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety restriction. Quipment of were the existing control, component which is used in the require injury are deathing information. Performance.



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 and rel

Classification Wave Soldering Profile:



---- max temperature procedure

Classification Wave Soldering Profile:

Profile Feature		Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	T _{s min}	100 °C	100 °C
Preheat Temperature Typical	T _{s typical}	120 °C	120 °C
Preheat Temperature Max	T _{s max}	130 °C	130 °C
Preheat Time t_s from $T_{s min}$ to $T_{s max}$	t _s	70 seconds	70 seconds
Ramp-up Rate	ΔT	150 °C max.	150 °C max.
Peak Temperature	Т _р	250 °C - 260 °C	235 °C - 260 °C
Time of actual peak temperature	tp	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 EN61760-1:2006

		CHECKED MaFi	REVISION 002.000	DATE (YYYY-MM-DD) 2020-02-24	general tolerance DIN ISO 2768-1m		PROJECTION METHOD	_ -
ROHS REACH 125 °C GRADE 1		DESCRIPTION	IT Rod	Core Induc	tor THT			
Würth Elektronik előse GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany						ORDER CODE	7121060	
	Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com				BUSINESS UNIT eiSos	status Valid		PAGE 5/7

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Cautions & Warnings:

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

General:

- This electronic 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.
- · Electronic components that will be used in safety-critical or high-reliability applications, should be pre-evaluated by the customer.
- The component was 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, as the core may flake apart.
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth
 Elektronik does not guarantee any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and
 sustainability over time.
- The customer is responsible for the functionality of their own products. All technical specifications for standard products also apply to customer specific products.

Product specific:

Soldering:

- · The solder profile must comply with the Würth Elektronik technical soldering specification. All other profiles will void the warranty.
- All other soldering methods are at the customers' own risk.

Cleaning and Washing:

Washing agents used during the production to clean the customer application may 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.

Potting:

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

Storage Conditions:

- A storage of Würth Electronik 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.

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.
- Due to heavy weight of the components, strong forces and high accelerations may have the effect to damage the electrical connection
 or to harm the circuit board and will void the warranty.
- Please be aware that products provided in bulk packaging may get bent and might lead to derivations from the mechanical
 manufacturing tolerances mentioned in our datasheet, which is not considered to be a material defect

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 MaFi	REVISION 002.000	DATE (YYYY-MM-DD) 2020-02-24	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	$-\bigcirc$	€-
RaHS REACH 125 °C GRADE'		DESCRIPTION	IT Rod	Core Induc	tor THT				
Würth Elektronik elSos Grobbl & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany						ORDER CODE	7121060	D	
	einnan y Tei. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com				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 MaFi	REVISION 002.000	DATE (YYYY-MM-DD) 2020-02-24	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD		⊕ -
ROHS REACH 125 °C GRADE1		DESCRIPTION	CIT Rod	Core Induc	tor THT			
Wirth Elektronik elöss GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg						ORDER CODE	60	
	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com				BUSINESS UNIT eiSos	status Valid		page 7/7

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