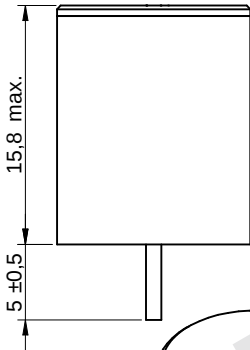
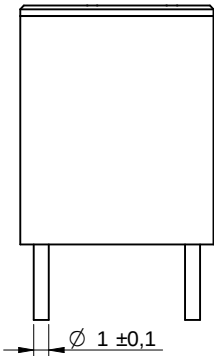
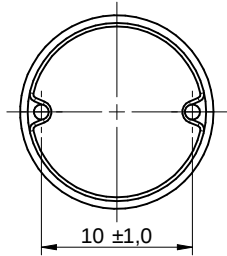
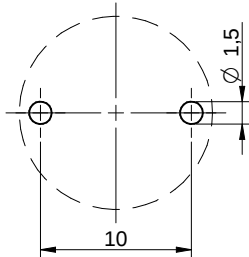


Dimensions: [mm]



Scale - 2:1

Recommended Hole Pattern: [mm]



Scale - 2:1

Schematic:



Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	100 kHz/ 1 V	10	μH	±20%
Rated Current	I _R	ΔT = 40 K	9.2	A	max.
Saturation Current	I _{SAT}	ΔL/LI < 30 %	11.3	A	typ.
DC Resistance	R _{DC}	@ 20 °C	8.6	mΩ	max.

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]
AEC-Q200 Qualification	Compliant [Rev. E]

General Properties:

It is recommended that the temperature of the component does not exceed +125 °C under worst case conditions	
Ambient Temperature	-40 °C up to +85 °C
Operating Temperature	-40 °C up to +125 °C
Storage Conditions (in original packaging)	up to 40 °C; < 75 % rH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % rH if not specified differently	

Product Marking:

Marking	100 (Inductance Code)
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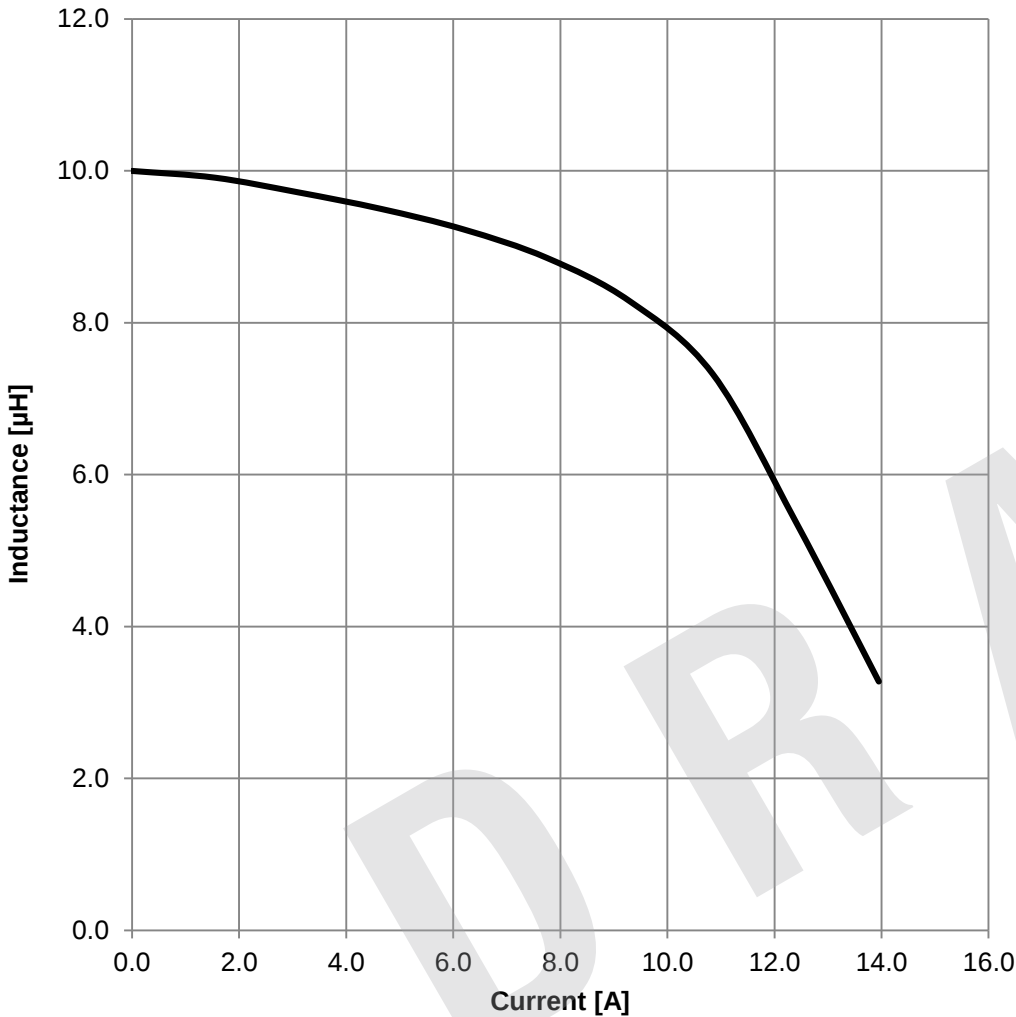


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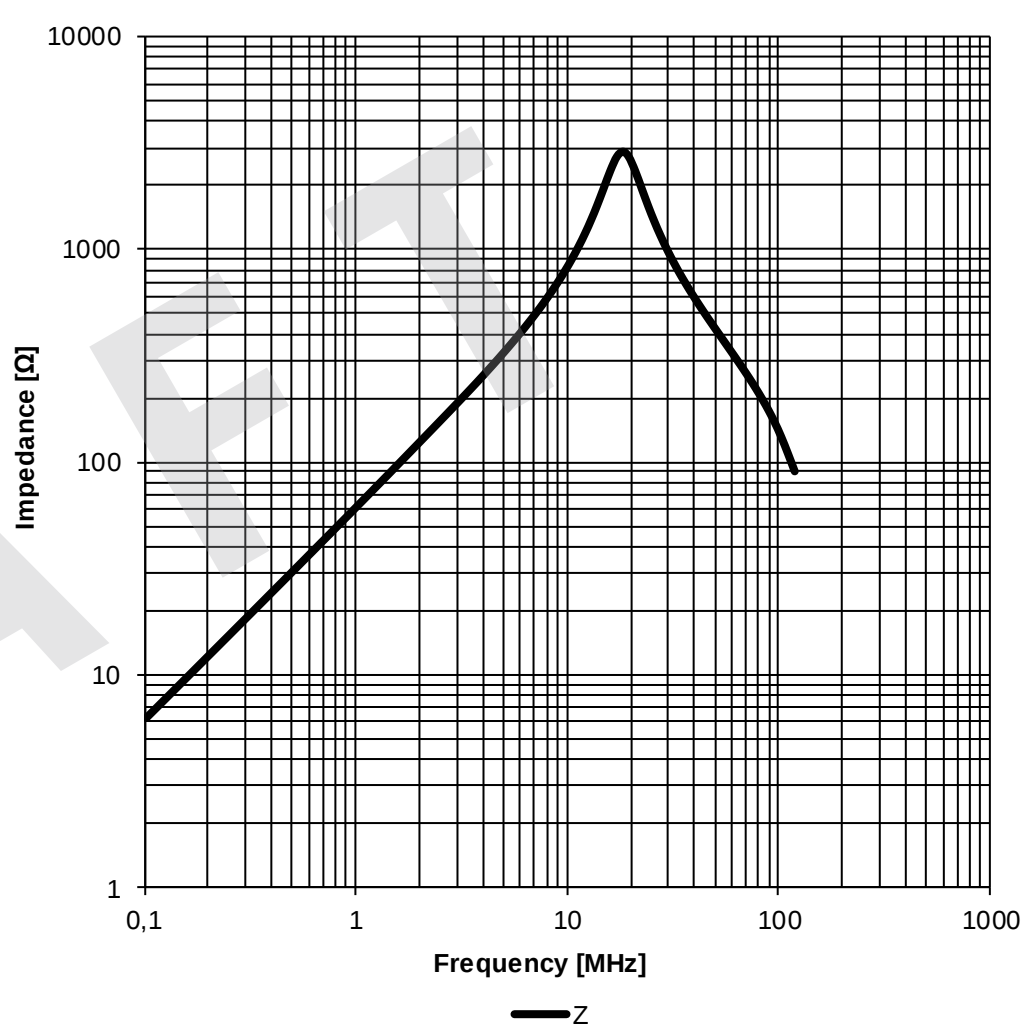
Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions
Max-Eyth-Str. 1
74638 Waldenburg
Germany
Tel. +49 (0) 79 42 945 - 0
www.we-online.com
eiSos@we-online.com

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DESCRIPTION WE-FAMI THT Power Inductor			ORDER CODE 744750460100	
SIZE/TYPE 1215	BUSINESS UNIT eiSos	STATUS Draft	PAGE 1/8	

Typical Inductance vs. Current Characteristics:



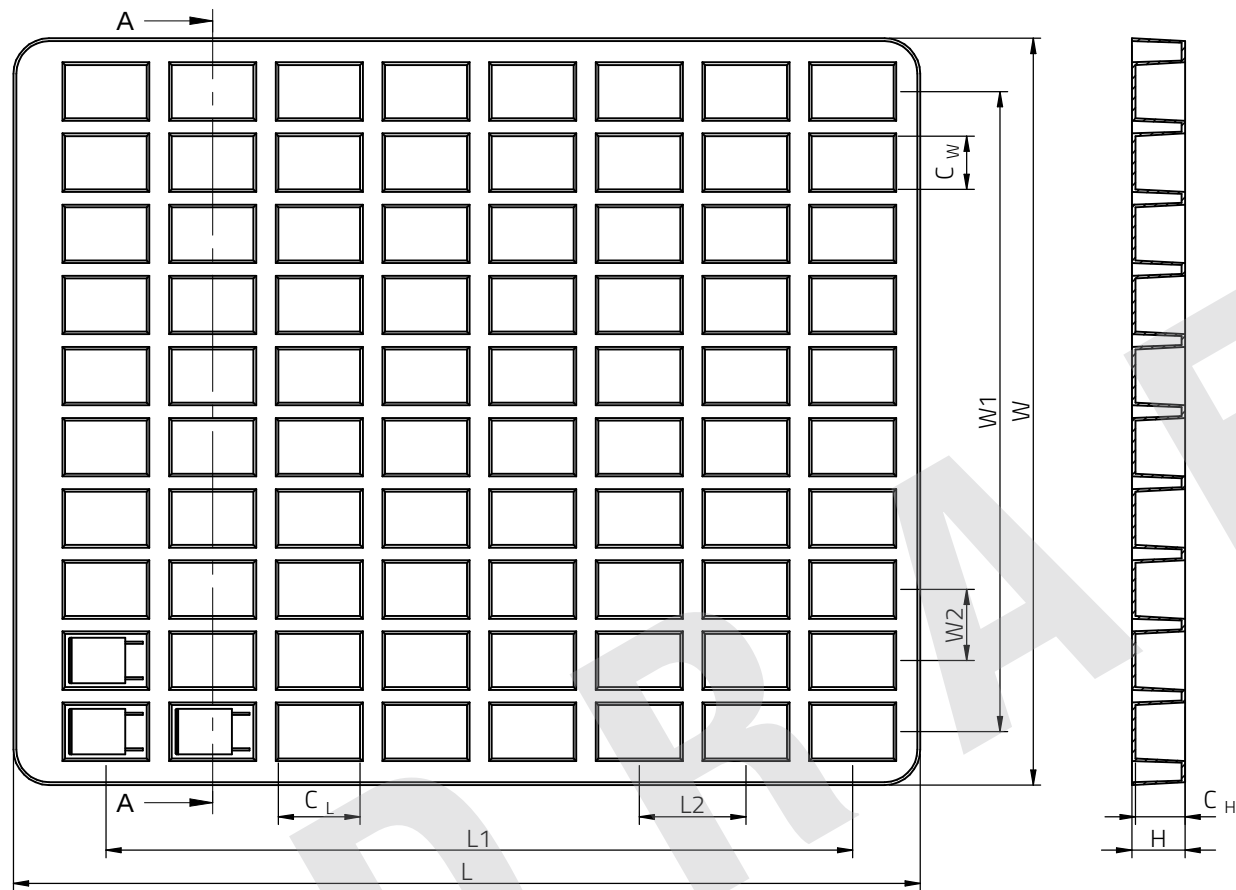
Typical Impedance Characteristics:



 RoHS COMPLIANT  REACH COMPLIANT  HALOGEN FREE  AEC Q200		CHECKED DaRu		REVISION 001.003	DATE (YYYY-MM-DD) 2026-09-25	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
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		SIZE/TYPE 1215		BUSINESS UNIT eiSos		STATUS Draft	PAGE 2/8

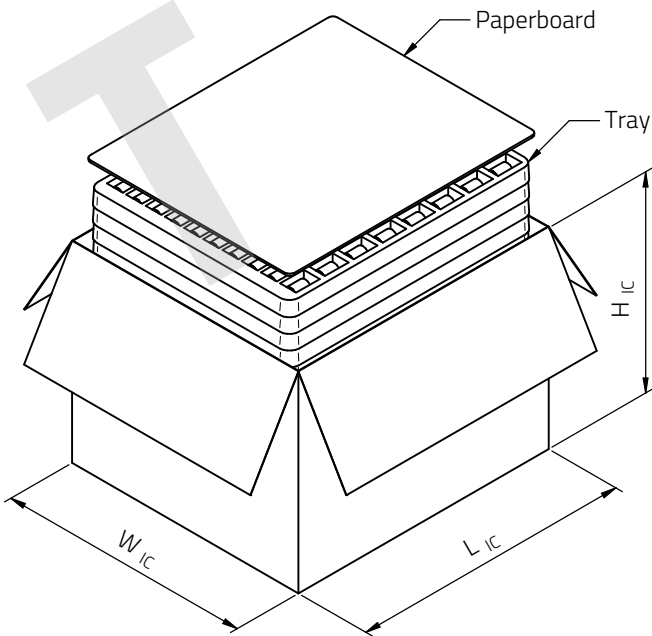
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos Group 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 Group 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.

Packaging Specification - Tray: [mm]



	L (mm)	L1 (mm)	L2 (mm)	C _L (mm)	W (mm)	W1 (mm)	W2 (mm)	C _W (mm)	H (mm)	C _H (mm)	Qty. (pcs.)	Material
Tolerance	typ.	typ.	typ.	typ.	typ.	typ.	typ.	typ.	typ.	typ.		
Value	255.00	207.00	18.50	15.00	210.00	170.0	30.00	25.00	15.00	14.00	80	PET

Packaging Specification - Inner Carton: [mm]



	L _{IC} (mm)	W _{IC} (mm)	H _{IC} (mm)	No. of Tray (pcs.)	Qty. (pcs.)	Material
Tolerance	typ.	typ.	typ.			
Value	260.00	235.00	200.00	10	800	Paper



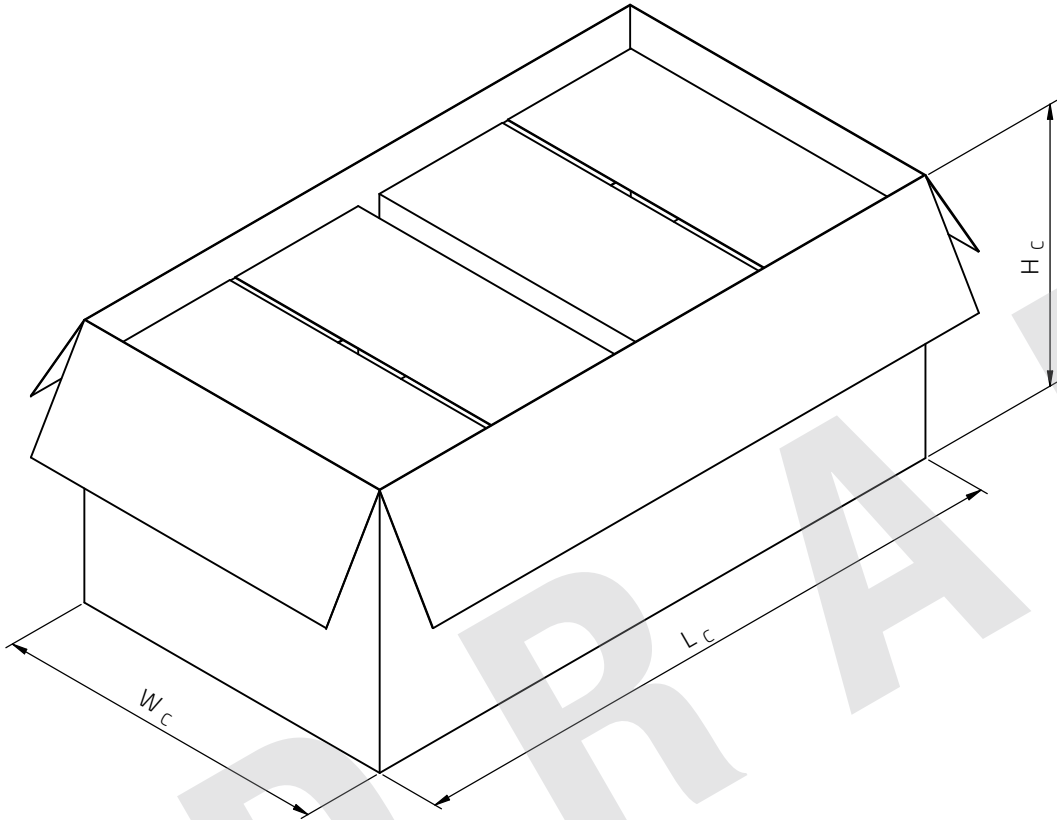
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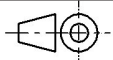
CHECKED DaRu	REVISION 001.003	DATE (YYYY-MM-DD) 2026-09-25	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION WE-FAMI THT Power Inductor				ORDER CODE 744750460100
SIZE/TYPE 1215	BUSINESS UNIT eiSos	STATUS Draft	PAGE 3/8	

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Packaging Specification - Outer Carton: [mm]

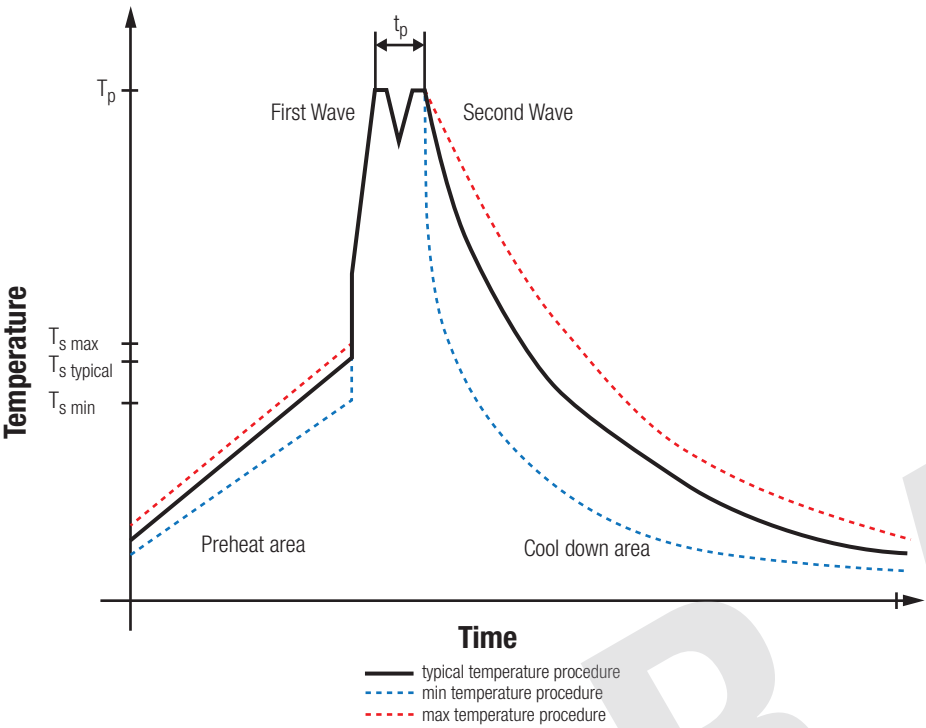


	L _c (mm)	W _c (mm)	H _c (mm)	No. of Inner Carton (pcs.)	Qty. (pcs.)	Material
Tolerance	typ.	typ.	typ.			
Value	510.00	276.00	229.00	2	1600	Paper

   			CHECKED DaRu	REVISION 001.003	DATE (YYYY-MM-DD) 2026-09-25	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 		
 WÜRTH ELEKTRONIK MORE THAN YOU EXPECT						DESCRIPTION WE-FAMI THT Power Inductor		ORDER CODE 744750460100	
						SIZE/TYPE 1215	BUSINESS UNIT eiSos	STATUS Draft	PAGE 4/8
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									

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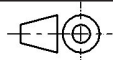
Classification Wave Soldering Profile:



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 Δ Temperature from $T_{s \text{ typical}}$ to T_p	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 EN 61760-1:2006

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Further information

Component Libraries:

Altium	Altium_WE-FAMI (22c)
Cadence17-2	Downloads_CADENCE_WE-FAMI (22a)
Cadstar	Download_CadStar_WE-FAMI (19a)
Eagle	Eagle_WE-FAMI (20a)
KiCad	KiCad_WE-FAMI (26b)
PSpice	PSpice_WE-FAMI (22a)
Spectre Circuit Simulator	Spectre_WE-FAMI (24a)

Free Sample Order:

[Order free samples of this article directly here!](#)

Tutorials:

- [Single Coil Inductors \(PDF\)](#)

REDEXPERT:

[Calculate losses for 744750460100 in REDEXPERT](#)

 RoHS COMPLIANT  REACH COMPLIANT  HALOGEN FREE  AEC Q200		CHECKED DaRu	REVISION 001.003	DATE (YYYY-MM-DD) 2026-09-25	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
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					SIZE/TYPE 1215	

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Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-RIB LFS of Würth Elektronik eiSos Group:

General:

All recommendations according to the general technical specifications of the data sheet have to be complied with.

The usage and operation of the product within ambient conditions, which probably alloy or harm the wire isolation, has to be avoided.

If the product is potted in customer applications, the potting material might shrink during and after hardening. The product is exposed to the pressure of the potting material with the effect that the core, wire and termination is possibly damaged by this pressure and so the electrical as well as the mechanical characteristics are endangered to be affected. After the potting material is cured, the core, wire and termination of the product have to be checked if any reduced electrical or mechanical functions or destructions have occurred.

The responsibility for the applicability of customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products do also apply to customer specific products

Cleaning agents that are used to clean the customer application might damage or change the characteristics of the component, body, pins or termination.

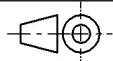
Direct mechanical impact to the product shall be prevented as the ferrite material of the core could flake or in the worst case it could break.

Product specific:

Follow all instructions mentioned in the data sheet, especially:

- The soldering profile has to be complied with according to the technical wave soldering specification, otherwise this will void the warranty.
- All products shall be used before the end of the period of 12 months based on the product date code, if not a 100% solderability can't be ensured.
- Violation of the technical product specifications such as exceeding the nominal rated current will void the warranty.
- Strong forces and high accelerations of the components of the sizes 1014 and 8012 might have the effect of damaging the electrical connection or to harm the circuit board due to the heavy weight of the component. These damages will void the warranty.

The general and product specific cautions 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.

 RoHS COMPLIANT  REACH COMPLIANT  HALOGEN FREE  AEC Q200		CHECKED DaRu	REVISION 001.003	DATE (YYYY-MM-DD) 2026-09-25	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
 WÜRTH ELEKTRONIK MORE THAN YOU EXPECT 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		DESCRIPTION WE-FAMI THT Power Inductor			ORDER CODE 744750460100	
		SIZE/TYPE 1215		BUSINESS UNIT eiSos	STATUS Draft	PAGE 7/8

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Important Notes

The following conditions apply to all goods within the product range of Würth Elektronik eiSos Group

1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos Group 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 Group 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 Group. Würth Elektronik eiSos Group 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 Group 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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