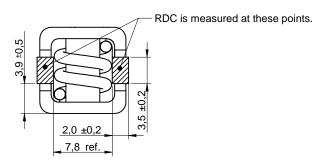
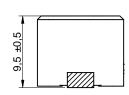
Dimensions: [mm]









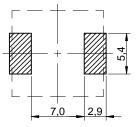


Scale - 2:1

Product Marking:

Marking	7443310033
Marking - Date Code	YYWW

Recommended Land Pattern: [mm]



Scale - 2:1

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	100 kHz/ 10 mA	0.33	μН	±20%
Rated Current	I _R	$\Delta T = 50 \text{ K}$	27	А	max.
Saturation Current	I _{SAT}	IΔL/LI < 30 %	80	А	typ.
DC Resistance	R _{DC}	@ 20 °C	1.1	mΩ	typ.
DC Resistance	R _{DC}	@ 20 °C	1.5	mΩ	max.
Self Resonant Frequency	f _{res}		190	MHz	typ.

Schematic:



General Properties:

It is recommended that the temperature of the component does not exceed +125 °C under worst case conditions

Ambient Temperature (refering to $I_{\rm R}$)	-40 up to +75 °C
Operating Temperature	-40 up to +125 °C
Storage Conditions (in original packaging)	< 40 °C; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Pro	operties: +20 °C, 33 % RH if not specified differently

Würth Elektronik	eiSos GmbH & Co. I	K(
FMC & Inductive	Solutions	

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



DESCRIPTION				i	
KaS	BD	DIN ISO 2768-1m	METHOD		
CREATED	CHECKED	GENERAL TOLERANCE	PROJECTION METHOD		

WE-HCC SMT High Current Cube Inductor

STATUS

Valid

REVISION

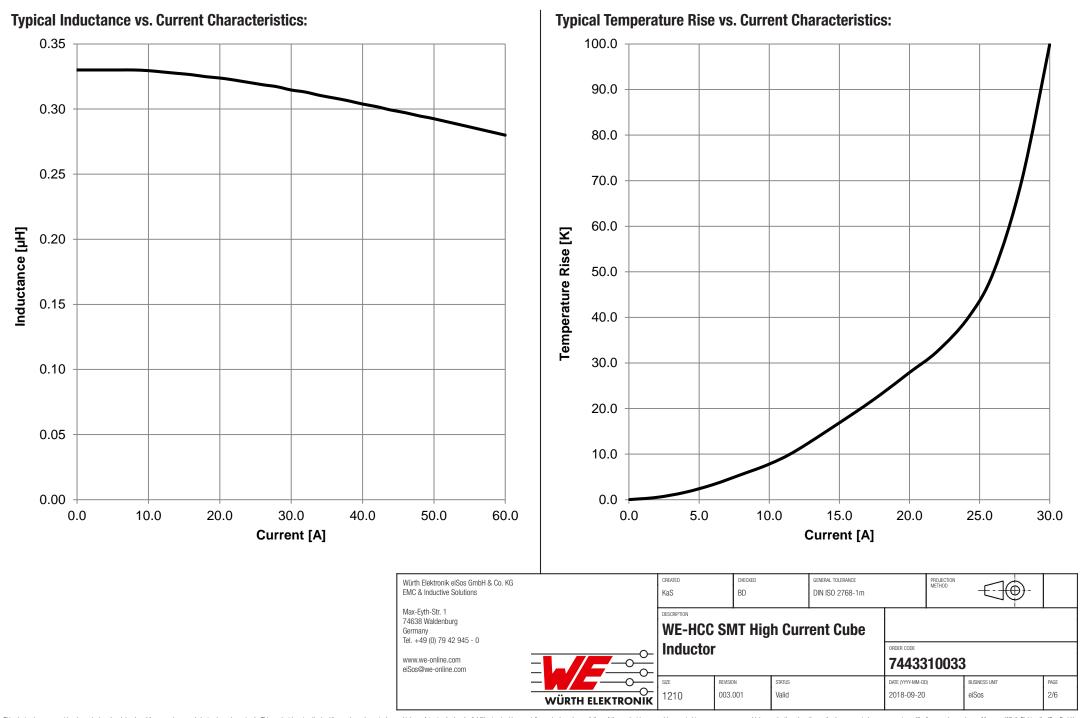
003.001

ORDER CODE

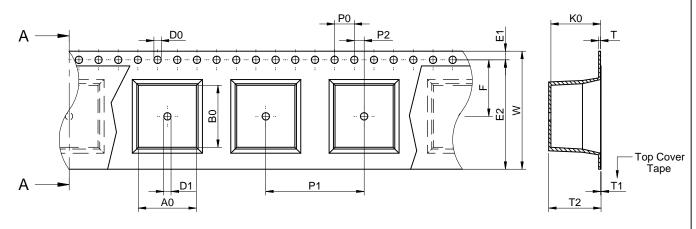
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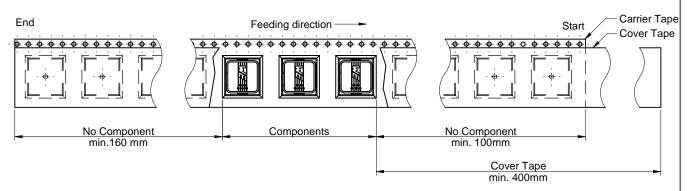
DATE (YYYAMA-DD) BUSINESS UNIT PAGE
2018-09-20 eiSos 1/6

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 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 Worth Elektronik elSos GmbH & Co KG must be informed in every electronic component with in its used in electrical cross in the specific product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such uses a failure or the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such uses 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 uses 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 uses 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 uses a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties of the product is reasonably expected to cause severe personal injury or death, unless the parties of the product is reasonably expected to cause severe personal injury or death, unless the parties of the product is reasonably expected to cause severe personal injury or death, unless the parties of the parties of



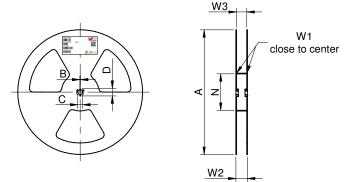
Packaging Specification - Tape and Reel: [mm]

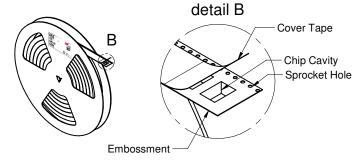




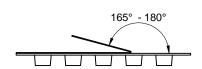
packaging is reffered to the international standard IEC 60286-3:2013

	A0	B0	W	T	T1	T2	K0	P0	P1	P2	D0	D1	E1	E2	F	Tape type 2a	Packaging unit
tolerance	typ.	typ.	+0,3/ -0,1	ref.	max.	typ.	typ.	±0,1	±0,1	±0,1	+0,1/ -0,0	min.	$\pm 0,1$	min.	±0,1		pcs.
value	11,80	12,60	24,00	0,40	0,10	11,00	10,55	4,00	20,00	2,00	1,50	1,50	1,75	22,25	11,50	Polystyrene	300





		Α	B	C	D	N N	W1	W2	W3	W3
Tolerance		± 2,0	min.	min.	min.	± 2,0	+ 2,0	max.	min.	max.
Tape width	24mm	330,00	1,50	12,80	20,20	60,00	24,40	30,40	23,90	27,40



Pull-of force 24 mm Tape width 0,1 N - 1,3 N

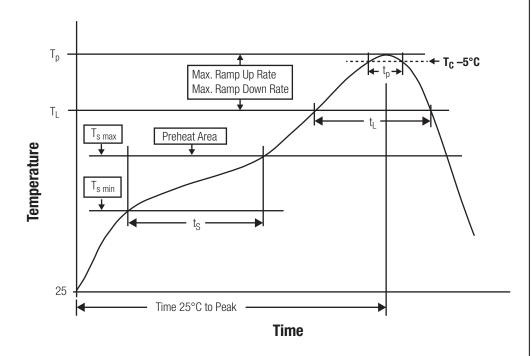
CREATED Würth Elektronik eiSos GmbH & Co. KG **EMC & Inductive Solutions** Max-Eyth-Str. 1 74638 Waldenburg Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com **WÜRTH ELEKTRONİK**

GENERAL TOLERANCE PROJECTION METHOD CHECKED KaS BD DIN ISO 2768-1m **WE-HCC SMT High Current Cube** ORDER CODE

Inductor

7443310033 DATE (YYYY-MM-DD) BUSINESS UNIT REVISION STATUS PAGE Valid 3/6 1210 003.001 2018-09-20 eiSos

Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min	T _{s min}	150 °C
Preheat Temperature Max	T _{s max}	200 °C
Preheat Time t_s from $T_{s min}$ to $T_{s max}$	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	see table below
Time within 5°C of actual peak temperaure	t _p	20 - 30 seconds
Ramp-down Rate (T _L to T _P)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature:

Properties	Volume mm³ <350	Volume mm ³ 350-2000	Volume mm³ >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 I Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C

refer to IPC/ JEDEC J-STD-020E

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions		CREATED KaS	BD		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD			
Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0		l	h Curr	ent Cube						
www.we-online.com eiSos@we-online.com	Inductor	Inductor					7443310033			
	WÜRTH ELEKTRONIK	1210	003.001	status Valid		DATE (YYYY-MM-DD 2018-09-20		BUSINESS UNIT eiSos	PAGE 4/6	

Cautions and Warnings:

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

General:

- This electronic component is designed and developed with the intention for use in general electronic equipment.
- Würth Elektronik must be asked for a written approval (following the certain PPAP level procedure) before incorporating the components
 into any equipment in the field 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 possibility of direct damage or injury to human body.
- In addition, even electronic components in general electronic equipment require a sufficient reliability evaluation-check for the safety, when used in electrical circuits that require high safety, reliability functions or performance, prior to usage.
- The component is designed and manufactured to be used within the datasheets' specified values. The usage and operation of the
 product within ambient conditions, which probably alloy or harm the wire isolation, has to be avoided.
- The responsibility for the function of the application of the customer specific products and use in a particular customer design is always
 the full and autonomous responsibility of the customer. All technical specification for standard products also apply to customer specific
 products.
- 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:

Soldering:

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

Cleaning and Washing:

Washing agents used during the production to clean the customer application might damage or change the characteristics of the wire
insulation, the marking or the plating. The washing agent could have a negative effect on the long term functionality of the product.

Storage Conditions:

- Limiting factors for the storage stability of electronic components are material characteristics and a solderability decrease of the terminations. Therefore all products shall be used within the period of 12 month based on the day of shipment.
- Do not expose the components into direct sunlight.

• The storage condition in the original packaging refered to DIN EN 61760-2.

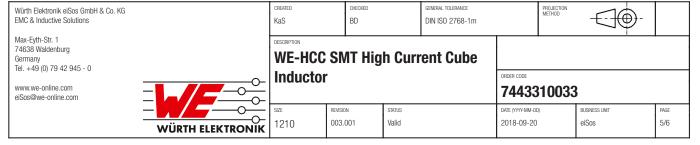
Potting:

If the product is potted in the costumer 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 require the inspection for any reduced electrical or mechanical functions or potential
destructions.

Handling:

Violation of the technical product specifications such as exceeding the nominal rated current 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.



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.

