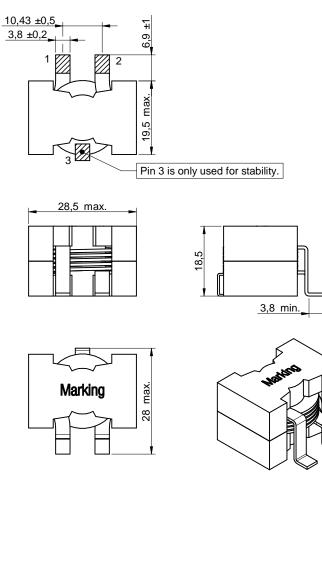
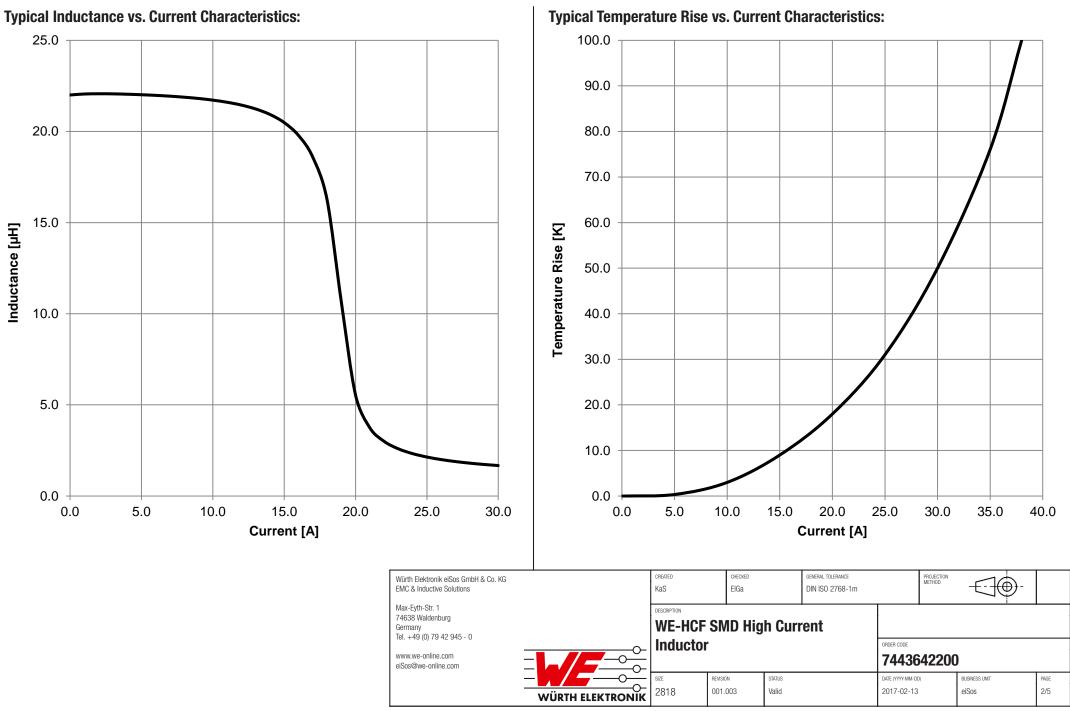
Dimensions: [mm]



nductive Solutions KaS ElGa DIN ISO 2768-1m Web Current Inductor 7443642200	Schematic:		Properti	es			Test cond	itions		Value	Unit	T
Saturation Current UL/LI < 30 % Iso Pool 2.4 Self Resonant Frequency yes 9 3 Ceneral Properties: It is recommended that the temperature of the component does not exceed +125°C case conditions Ambient Temperature (refering to Iso 20°C up to +75 °C Operating Temperature (a original -40 °C up to +75 °C Operating Temperature (a original -20°C up to +125 °C Storage Temperature (in original -20°C up to +40°C, 75% RH m Test conditions of Electrical Properties: +20°C, 33% RH if not specified diffe WE-HCFF SMD High Current Inductor WE-HCFF SMD High Current Inductor Test conditions (Internet) (0.7942-951-0 			Inducta	nce			100 kHz/ 1	0 mA	L	22	μH	±
Saturation Current IAULI < 30 %			Rated C	urrent			ΔT = 50 K		I _R	30	A	n
DC Resistance Roc 2.4 Setf Resonant Frequency Ites 9 1			Saturati	on Curren	t		$ \Delta L/L < 30$)%	1	18	A	1
Self Resonant Frequency fmm 9 1			DC Resi	stance						2.4	mΩ	:
Image: Second State Image: Second State Image: Second State Image: Second State <th></th> <th></th> <th>Self Res</th> <th>onant Fre</th> <th>quency</th> <th></th> <th></th> <th></th> <th></th> <th>9</th> <th>MHz</th> <th>1</th>			Self Res	onant Fre	quency					9	MHz	1
extronik elöss GmbH & Co. KG Operating Temperature (refering to Indicators) -40 °C up to +75 °C Operating Temperature -40 °C up to +125 °C Storage Temperature (in original packaging) -20°C up to +40°C, 75% RH matrix Test conditions of Electrical Properties: +20°C, 33% RH if not specified difference Mulcritle Solutions ElGa	1 I		Gener	al Prop	perties							
Image: construction Image: construction												
Storage Temperature (in original packaging) -20°C up to +40°C, 75% RH ma Test conditions of Electrical Properties: +20°C, 33% RH if not specified difference ektronik elSos GmbH & Co. KG nductive Solutions -Str. 1 Valdenburg (0) 79 42 945 - 0 -online.com WE-HCF SMD High Current Inductor OFEXER Valdaburg (0) 79 42 945 - 0 -online.com			It is rec	ommended	I that the	temperatur	e of the co case con	mponent ditions	does no	t exceed +125	°C under v	WO
Packaging) Test conditions of Electrical Properties: +20°C, 33% RH if not specified diffe Test conditions of Electrical Properties: +20°C, 33% RH if not specified diffe ductive Solutions h-Str. 1 Valdenburg (0) 79 42 945 - 0 -online.com ve-online.com ve-online.com			Ambien				e of the co case con	ditions			°C under v	wo
onik eiSos GmbH & Co. KG trive Solutions r. 1 lenburg 79 42 945 - 0 line.com phline.com			Ambient I _R)	t Tempera	ture (refe		e of the co case con	ditions	-40 °C u	ıp to +75 °C	°C under v	wo
Kalo ElGa DIN ISO 2768-1m In-Str. 1 KaS ElGa DIN ISO 2768-1m In-Str. 1 KaS ElGa DIN ISO 2768-1m V(0) 79 42 945 - 0 V V -online.com -online.com -online.com			Ambient I _R) Operatir Storage	t Tempera ng Temper Temperat	ture (refe ature	ering to	e of the co case con	ditions -	-40 °C u 40 °C u	up to +75 °C p to +125 °C		wo
Valdenburg / (0) 79 42 945 - 0 online.com ve-online.com			Ambient I _R) Operatir Storage packagi	t Tempera ng Temper Temperat ng)	ture (refe ature ure (in o	ering to riginal	case con	ditions - -20°C I	-40 °C u 40 °C u up to +4	up to +75 °C p to +125 °C 40°C, 75% RH r	nax.	WOI
-online.comonline.com 7443642200	ürth Elektronik eiSos GmbH & Co. KG AC & Inductive Solutions	+	Ambient I _R) Operatir Storage packagi	t Tempera ng Temperat ng) Test condit	ture (refe ature ure (in o	ering to riginal ectrical Pro	perties: +2	ditions - -20°C I	-40 °С и 40 °С и ир to +4 % RH if r	up to +75 °C p to +125 °C Ю°С, 75% RH n not specified dif	nax. ferently	wc
	& Inductive Solutions ;yth-Str. 1 3 Waldenburg any 49 (0) 79 42 945 - 0	 KaS DESCRIPTION	Ambient I _R) Operatin Storage packagi	t Tempera ng Temperat Temperat ng) Test condit	ture (refe	ering to riginal ectrical Pro	perties: +2	ditions	-40 °С и 40 °С и ир to +4 % RH if r	up to +75 °C p to +125 °C Ю°С, 75% RH n not specified dif	nax. ferently	wo
SZE REMSION STATUS DATE (YYY-MM-DD) BUSINESS UNIT	e Solutions ourg 42 945 - 0 .com	KaS DESCRIPTION	Ambient I _R) Operatin Storage packagi	t Tempera ng Temperat Temperat ng) Test condit	ture (refe	ering to riginal ectrical Pro	Derties: +2	ditions - -20°C :0°C, 33° ORDER CODE	-40 °C u 40 °C u up to +4 % RH if r	up to +75 °C p to +125 °C 10°C, 75% RH r not specified dif	nax. ferently	W0

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 valuation checks for safety restriction. Wurth 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. Component which is used in electrical iccurity attraction expectations or genomance.



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Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

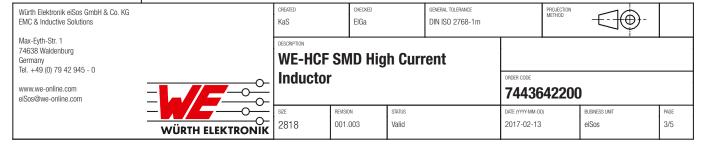
Profile Feature		Value
Preheat Temperature Min	T _{s min}	150 °C
Preheat Temperature Max	T _{s max}	200 °C
Preheat Time t_s from $T_{s min}$ to $T_{s max}$	t _s	60 - 120 seconds
Ramp-up Rate (T _L to T _P)		3 °C/ second max.
Liquidous Temperature	Τ _L	217 °C
Time t_L maintained above T_L	tL	60 - 150 seconds
Peak package body temperature	Т _р	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 mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >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 Package Thickness \ge 2.5 mm	250 °C	245 °C	245 °C

refer to IPC/ JEDEC J-STD-020E



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Cautions and Warnings:

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

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 core material 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 reflow 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.
- Due to heavy weight of the components, strong forces and high accelerations might have the effect to damage the electrical connection
 or to harm the circuit board and 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.

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions		CREATED KaS	CHECKED EIGa		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD		
Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0	WE-HCF SMD High Curre								-
www.we-online.com eiSos@we-online.com		inductor				ORDER CODE	42200		
			REVISION 001.003	status Valid		DATE (YYYY-MM-DD 2017-02-13)	BUSINESS UNIT eiSos	PAGE 4/5

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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.

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions	CREATED KaS	CHECKED EIGa		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD		
Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0		WE-HCF SMD High Current Inductor					·	
www.we-online.com	$\frac{-}{-}$					42200)	
		REVISION 001.003	status Valid		DATE (YYYY-MM-DD 2017-02-13)	BUSINESS UNIT eiSos	PAGE 5/5

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