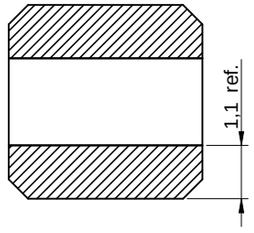
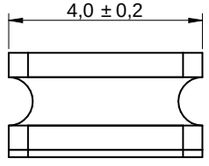
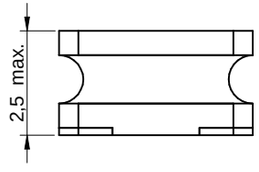
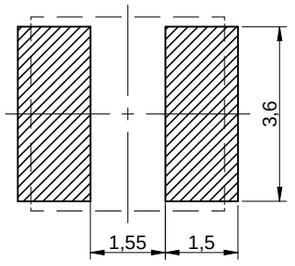






Scale - 7:1



Scale - 7:1

Schematic:

Rated Current	ΔT = 40 K	I_R	0.16
Saturation Current	I∆L/LI < 30 %	I_{SAT}	0.09
DC Resistance	@ 20 °C	R_{DC}	10342
Self Resonant Frequency		f_{res}	3

General Information:

It is recommended that the temperature of the component does not exceed +1 case conditions

Ambient Temperature (refering to I_R)	-40 °C up to +85 °C
Operating Temperature	-40 °C up to +125 °
Storage Conditions (in original packaging)	< 40 °C ; < 75 % F
Moisture Sensitive Level (MSL)	1

Test conditions of Electrical Properties: +20 °C, 33 % RH if not specifie

Product Marking:

Marking	102 (Inductance Code)

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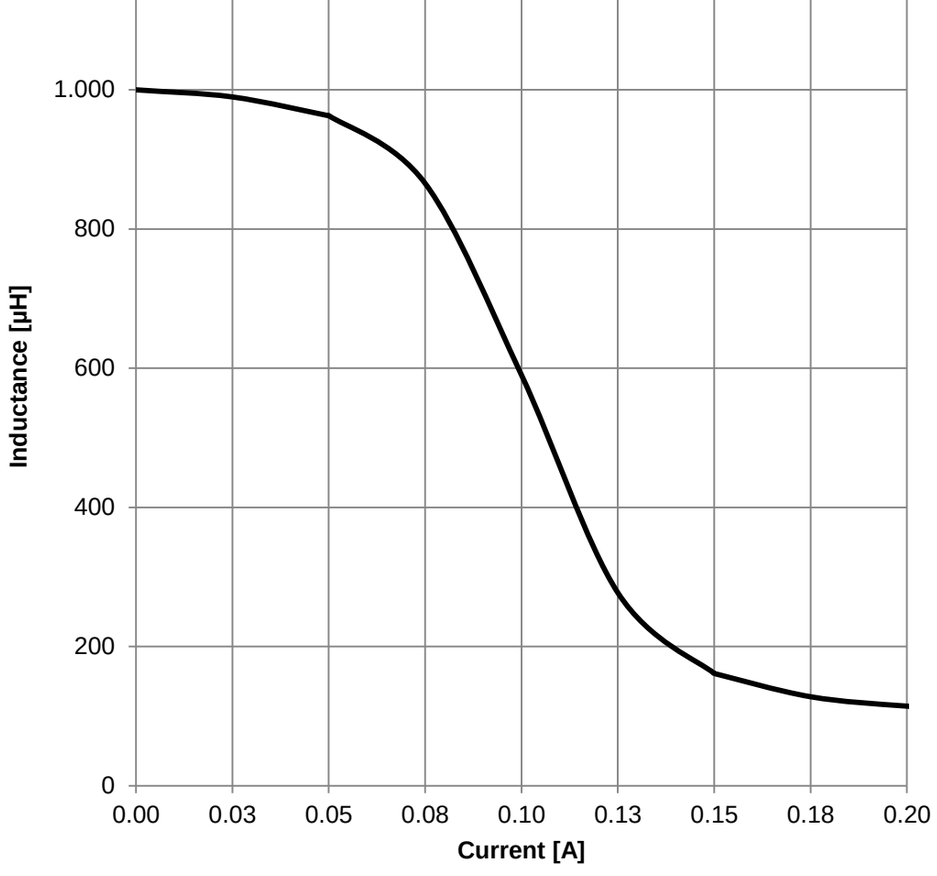
WÜRTH ELEKTRONIK

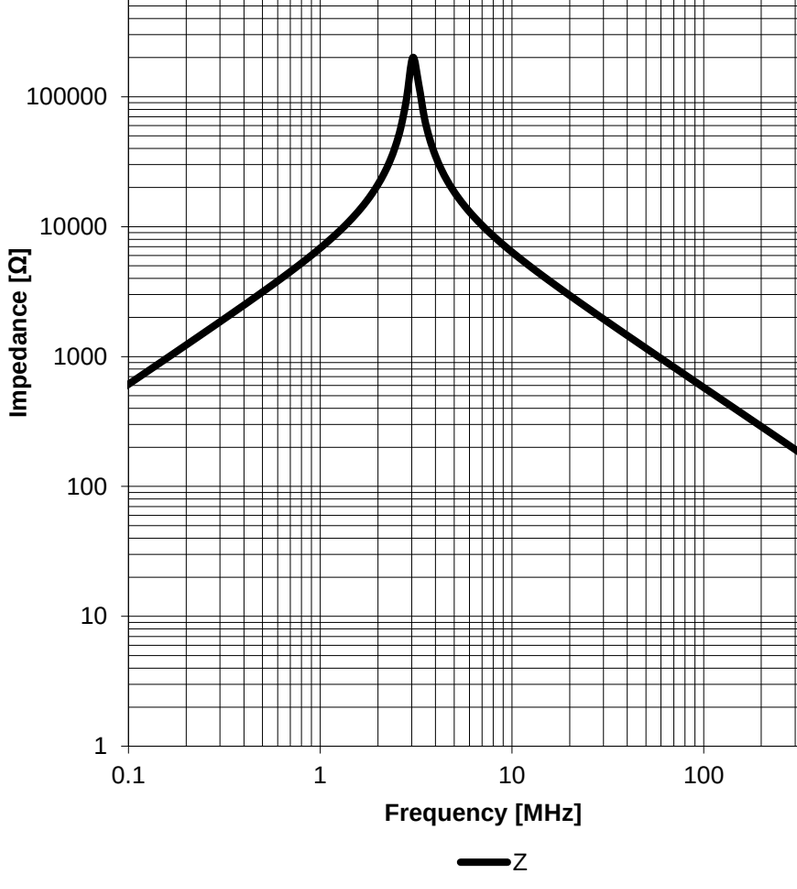
CREATED	CHECKED	GENERAL TOLERANCE	PROJECTION METHOD
KaS	ChriB	DIN ISO 2768-1m	

DESCRIPTION
WE-LQS SMD Semi-Shielded Power Inductor

ORDER CODE
74404043102A

SIZE	REVISION	STATUS	DATE (YYYY-MM-DD)	BUSINESS UNIT
4025	001.001	Valid	2018-06-05	eiSos





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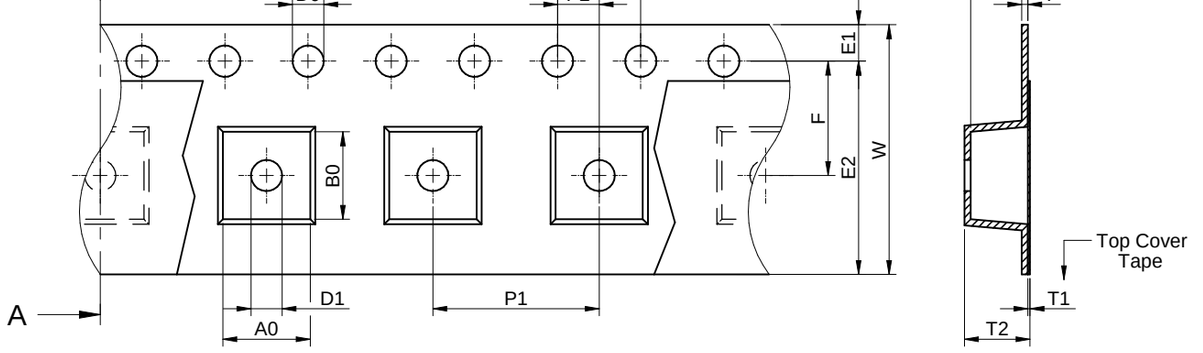
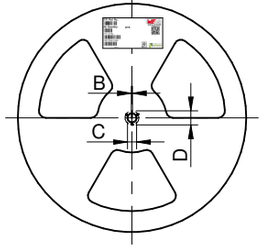
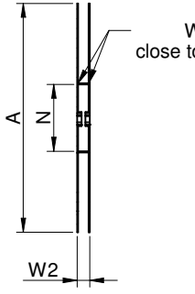
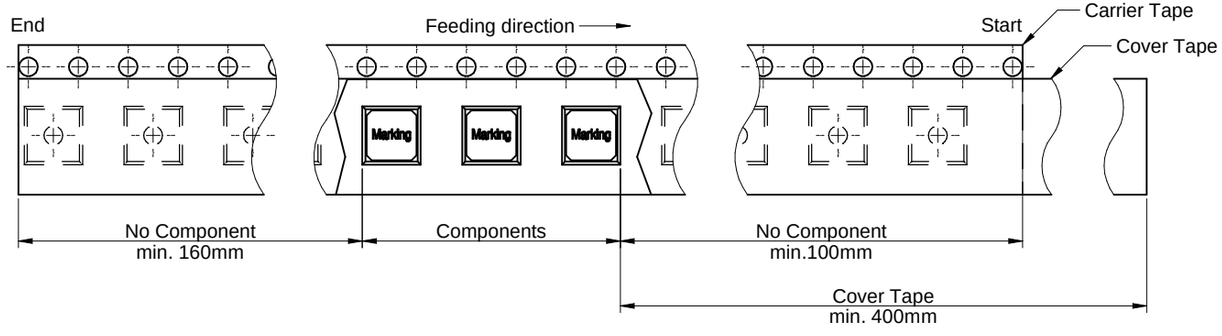
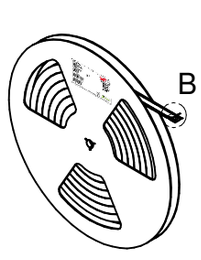
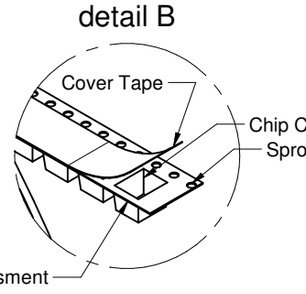








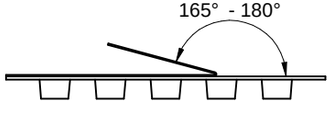




		A	B	C	D	N	W1	W2	
Tolerance		± 2,0	min.	min.	min.	min.	+ 2,0	max.	
Tape width	12 mm	330,00	1,50	12,80	20,20	60,00	12,40	18,40	

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	±0,05	+0,1/ -0,0	min.	±0,1	min.	±0,05		pcs.
value	4,20	4,20	12,00	0,30	0,10	3,15	2,75	4,00	8,00	2,00	1,50	1,50	1,75	10,25	5,50	Polystyrene	3000



		Pull-of force
Tape width	**12 mm**	0,1 N - 1,3 N

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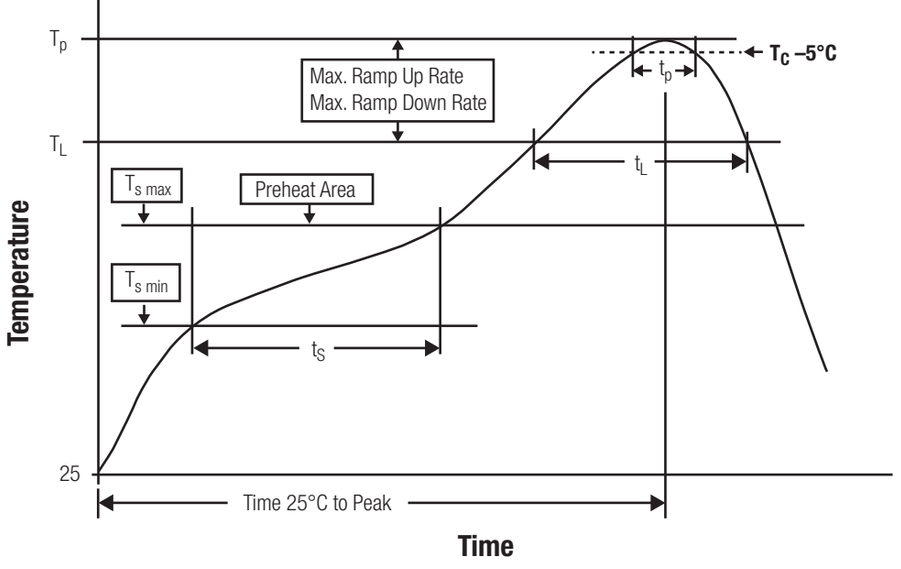

Preheat Temperature Max	$T_{s\,max}$	200 °C
Preheat Time t_s from $T_{s\,min}$ to $T_{s\,max}$	t_s	60 - 120 seconds
Ramp-up Rate (T_L to T_P)		3 °C/ second max.
Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	60 - 150 seconds
Peak package body temperature	T_p	see table below
Time within 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 mm³ 350-2000	Vo >2
PB-Free Assembly | Package Thickness < 1.6 mm	260 °C	260 °C	26
PB-Free Assembly | Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	24
PB-Free Assembly | Package Thickness ≥ 2.5 mm	250 °C	245 °C	24

refer to IPC/ JEDEC J-STD-020E

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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 electronic 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 dissolve 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.
- 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 characteristic, beyond Würth Elektronik specifications, for its validity and sustainability over time.

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:

Potting:

- If the product is potted in the costumer applications, the potting material might shrink during and after hardening. T exposed to the pressure of the potting material with the effect that the core, wire and termination is possibly damag and so the electrical as well as the mechanical characteristics are endangered to be affected. After the potting mat core, wire and termination of the product require the inspection for any reduced electrical or mechanical functions o 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 b accurate and reliable; however, no responsibility is assumed for inaccuracies or incompleteness.

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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.

available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the availability expectancy before or when the product for application design-in disposal is considered. The approach name 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, develo well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will Elektronik eiSos GmbH & Co. KG. Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any 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 Elektronik eiSos Group”, last version available at www.we-online.com.

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