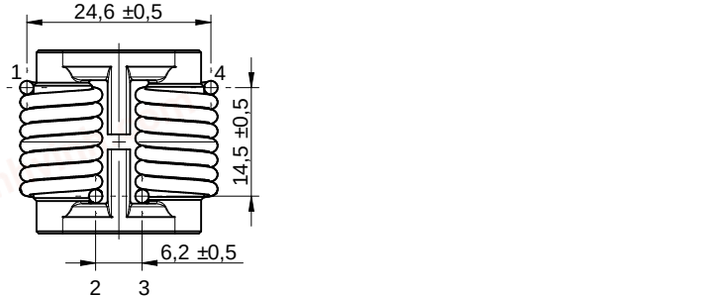
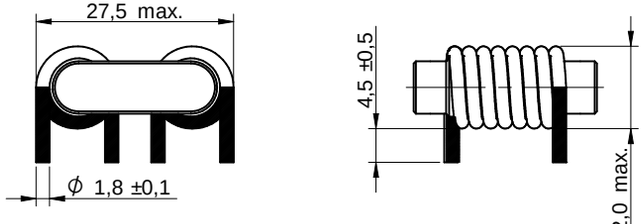
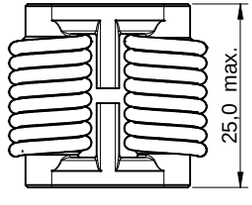
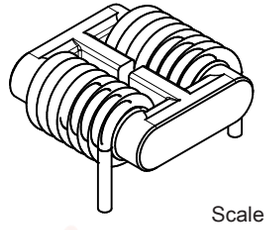
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Dimensions: [mm]



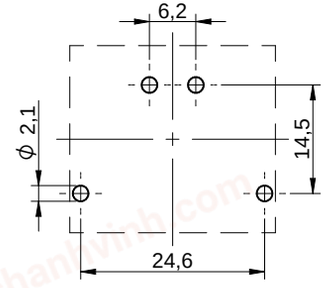




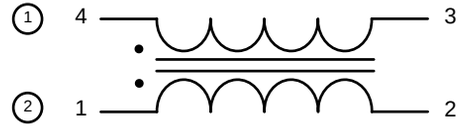


Scale - 1:1

Recommended Land Pattern: [mm]



Scale - 1:1



Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	10 kHz/ 100 mV	L	150	µH	±40%
Leakage Inductance	10 kHz/ 100 mV	L_S	5.6	µH	typ.
Rated Current	@ 60 °C	I_R	20	A	max.
DC Resistance	@ 20 °C	R_{DC}	1.9	mΩ	max.
Rated Voltage	50 Hz	U_R	250	V (AC)	max.
Insulation Test Voltage	50 Hz/ 5 mA/ 2 sec.	U_T	1500	V (AC)	

General Information:

It is recommended that the temperature of the component does not exceed +115°C under worst case conditions	
Ambient Temperature (refering to I_R)	-40 °C up to +60 °C
Operating Temperature	-40 °C up to +115 °C
Storage Temperature (in original packaging)	-20°C up to +60°C, 75% RH max.
Test conditions of Electrical Properties: +20°C, 33% RH if not specified differently	

Product Marking:

Marking	7448680180
Marking - Date Code	WWYY

Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions

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WÜRTH ELEKTRONIK

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

DESCRIPTION
WE-LPCC Common Mode Power Line Choke

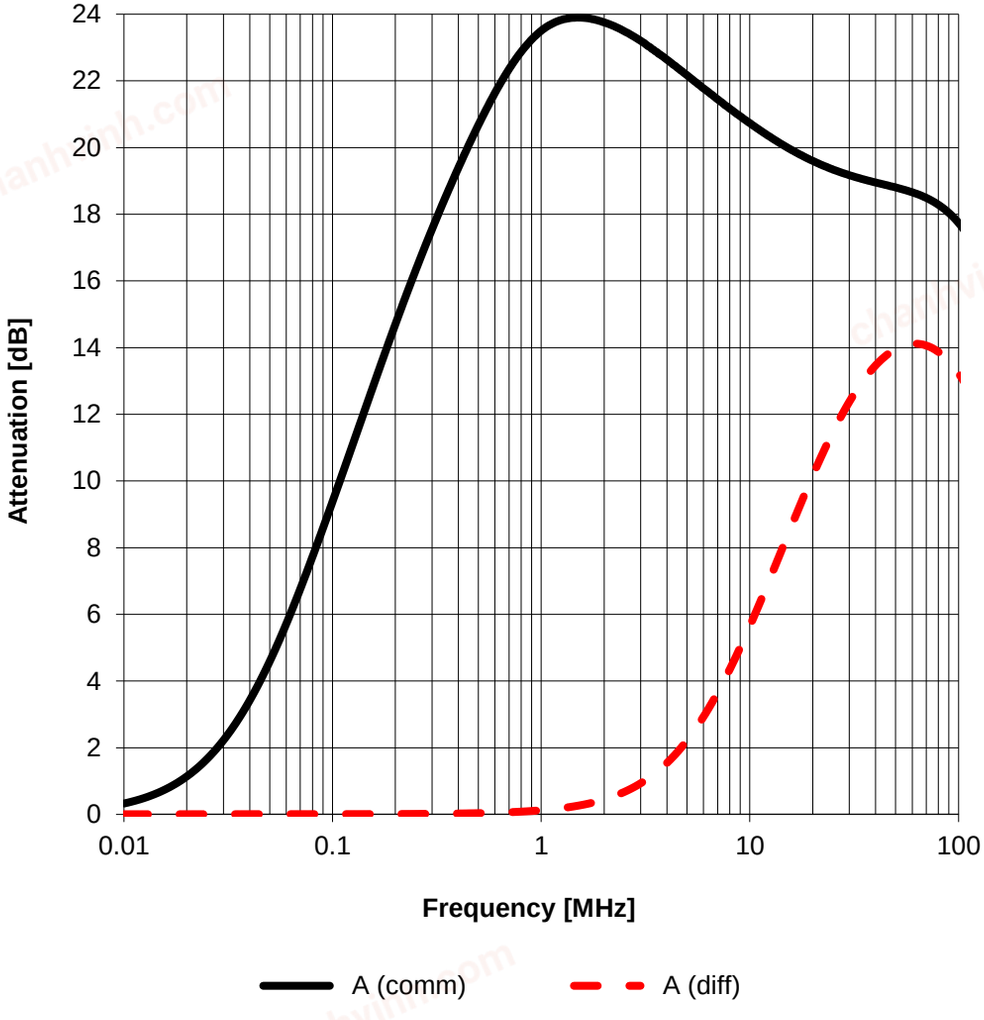
ORDER CODE
7448680180

REVISION	STATUS	DATE (YYYY-MM-DD)	BUSINESS UNIT	PAGE
001.000	Valid	2017-03-06	eiSos	1/5

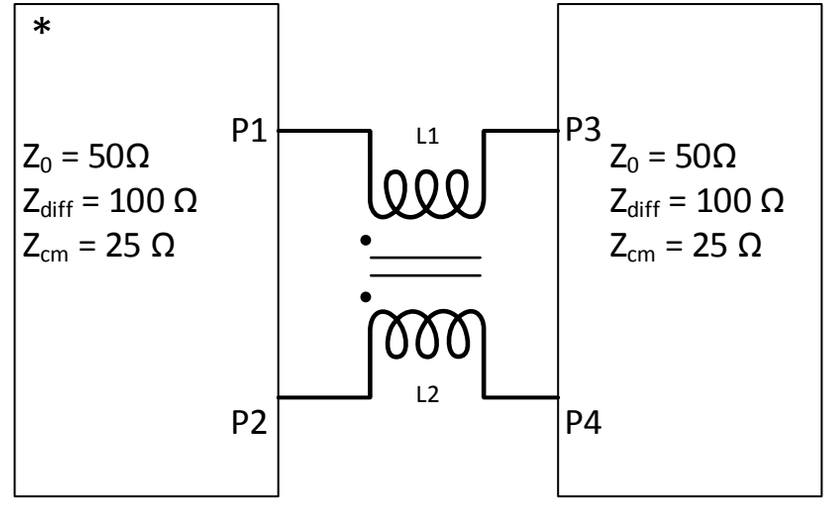
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik eiSos 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 must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

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Typical Insertion Loss:



Test Setup:



*ENA Network analyzer E5071B/C or equivalent

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

DESCRIPTION: **WE-LPCC Common Mode Power Line Choke**

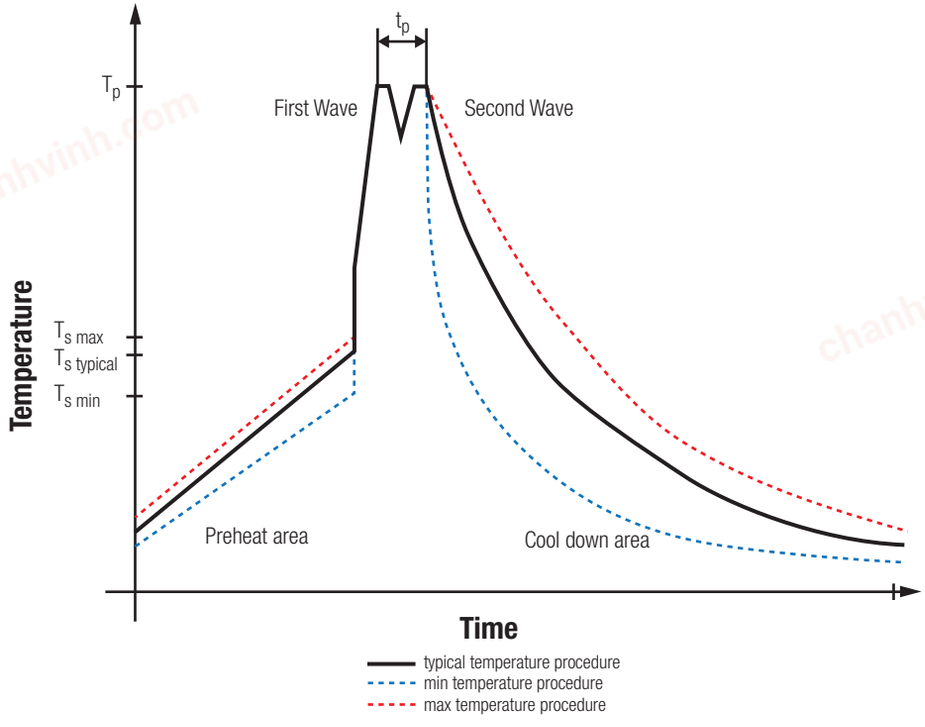
ORDER CODE: **7448680180**

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001.000	Valid	2017-03-06	eiSos	2/5

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Classification Wave Soldering Profile:



Classification Wave Soldering Profile:

Profile Feature		Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	$T_{s\ min}$	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	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 EN61760-1:2006

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

DESCRIPTION: **WE-LPCC Common Mode Power Line Choke**

ORDER CODE: **7448680180**

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001.000	Valid	2017-03-06	eiSos	3/5

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Cautions & Warnings:

The following conditions apply to all goods within the product series of WE-LPCC 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 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.
- Reflow soldering is only allowed after evaluation and approval.
- 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 result in the loss of warranty.
- Due to heavy weight of the component, 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 prodcut 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.

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

DESCRIPTION: **WE-LPCC Common Mode Power Line Choke**

ORDER CODE: **7448680180**

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001.000	Valid	2017-03-06	eiSos	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.

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

DESCRIPTION: **WE-LPCC Common Mode Power Line Choke**

ORDER CODE: **7448680180**

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