

Excellent Integrated System Limited

Stocking Distributor

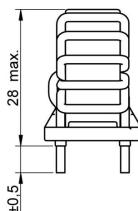
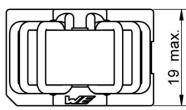
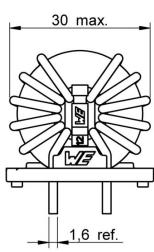
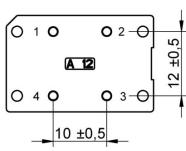
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Wurth Electronics Inc](#)
[7448042001](#)

For any questions, you can email us directly:

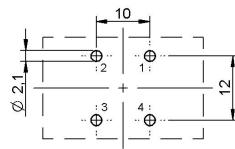
sales@integrated-circuit.com

A Dimensions: [mm]



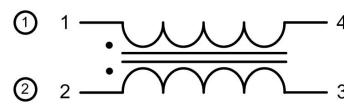
Scale - 1:1

B Recommended hole pattern: [mm]



Scale - 1:1

C Schematic:



REV	DATE	BY	CHECKED	Projection	DESCRIPTION
2.1	2016-05-25	KaS	HasA	 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	WE-CMBNC Common Mode Power Line Choke Nanocrystalline Order- No. 7448042001 Size: Type L
2.0	2016-02-16	KaS	SRe		
1.3	2015-02-16	SSI	HasA		
1.2	2014-05-13	SSI	SSI		
1.1	2014-04-02	SSI	HasA		
1.0	2014-03-17	SSI	HasA		

D Electrical Properties:

Properties	Test conditions	Value	Unit	Tol.
Inductance	10 kHz/ 0.1 mA	L	2x 1.0	mH +50%/-30%
Rated current	@ 70°C	I _R	20.0	A max.
DC Resistance	@ 20°C	R _{DC}	2x 2.4	mΩ max.
Rated voltage	50 Hz	U _R	250	V (AC) max.
Insulation test voltage	50 Hz/ 5 mA/ 2 sec.	U _I	1500	V (AC) max.



E General information:

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

- Storage Temperature: -20°C to 60°C
- Operating Temperature: -40°C to 125°C
- Temperature Rise: < 55K
- Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently



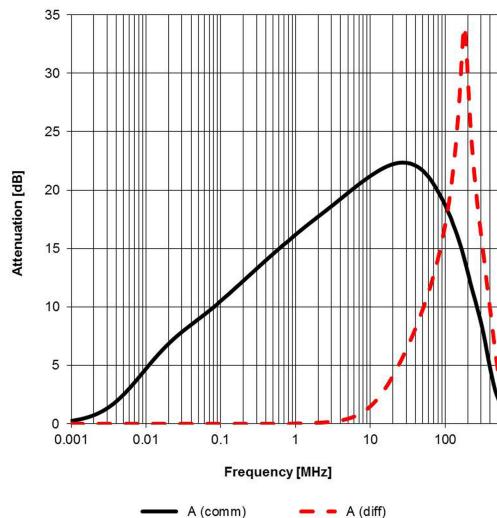
SIZE

A4

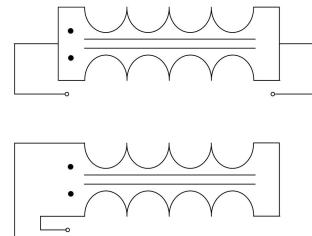
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause 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.



F Typical Insertion Loss Characteristics:



Test Setup:



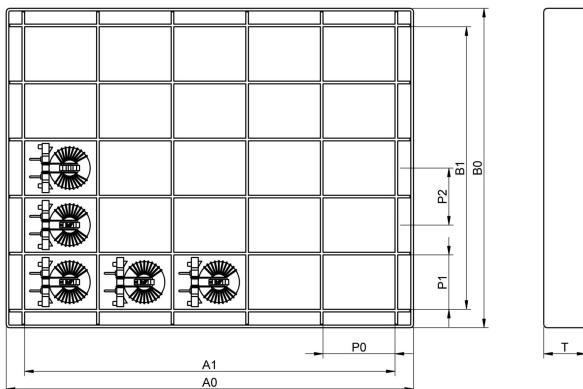
Common Mode

Differential Mode

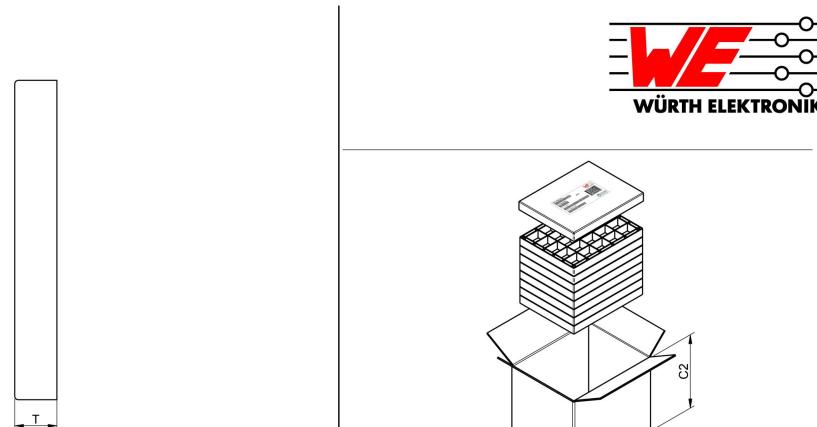
REV	DATE	BY	CHECKED	Projection	DESCRIPTION
2.1	2016-05-25	KaS	HasA		WE-CMBNC Common Mode Power Line Choke Nanocrystalline
2.0	2016-02-16	KaS	SRe		
1.3	2015-02-16	SSI	HasA		
1.2	2014-05-13	SSI	SSI		
1.1	2014-04-02	SSI	HasA		
1.0	2014-03-17	SSI	HasA		
REV DATE BY CHECKED					Order.- No.
					7448042001
					SIZE
					A4
				Size: Type L	

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G Packaging Specification - Carton [mm]:



	A0	B0	P0	P1	P2	T	A1	B1	Case	VPE/ packaging Unit
tolerance	typ.	typ.	ref.	ref.	ref.	typ.	ref.	ref.		pcs.
size	IndCMBNC_L	235,0	185,0	41,0	31,0	32,5	24,0	211,0	161,0	Paper
										25



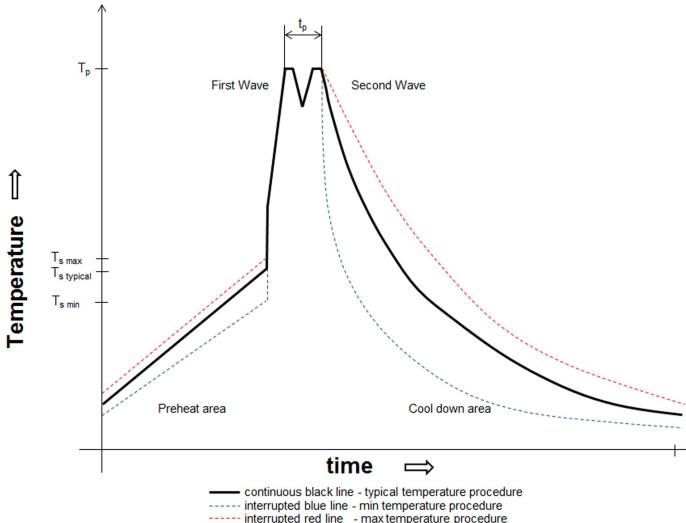
	No. of Cases	Inner Carton	A2	B2	C2	Master Carton	A3	B4	C3	Packaging Unit
tolerance	pcs.	pcs.	typ.	typ.	typ.	pcs.	typ.	typ.	typ.	pcs.
size	IndCMBNC_L	8	1	260,0	210,0	217,0	1	275,0	232,0	255,0
										200

DESCRIPTION										
WE-CMBNC Common Mode Power Line Choke Nanocrystalline										
Order.- No. 7448042001 COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK SIZE A4										
Size: Type L										

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H Soldering Specifications:

H4: Classification Wave Soldering Profile:



H5: Classification Wave Profile

Profile Feature	Pb-Free Assembly	Sn-Pb Assembly
Preheat	100°C 120°C 130°C 70 seconds	100°C 120°C 130°C 70 seconds
- Temperature Min ($T_{s\min}$)		
- Temperature Typical ($T_{s\text{typical}}$)		
- Temperature Max ($T_{s\max}$)		
- Time (t_s) from ($T_{s\min}$ to $T_{s\max}$)		
Δ preheat to max Temperature	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 second each wave	max. 10 seconds max. 5 second each wave
Ramp-down rate		
- Min	~ 2 K/s	~ 2 K/s
- Typical	~ 3.5 K/s	~ 3.5 K/s
- Max	~ 5 K/s	~ 5 K/s
Time 25°C to 25°C	4 minutes	4 minutes

refer to EN 61760-1:2006

				Projection		DESCRIPTION
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1.2	2014-05-13	SSt	SSt			
1.1	2014-04-02	SSt	HasA			
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I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-CMBNC
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 void the 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 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.

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J 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 Sections 1 and 2 remains unaffected.

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				Size: Type L		COMPLIANT  RoHS & REACH WÜRTH ELEKTRONIK	

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