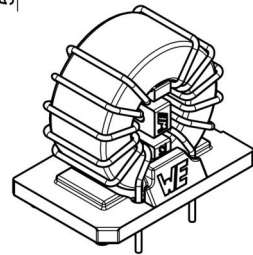
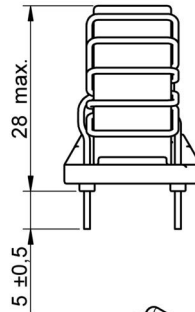
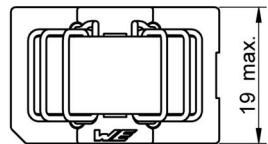
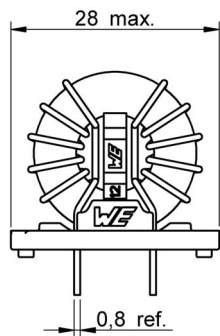
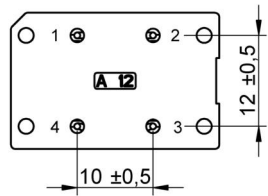
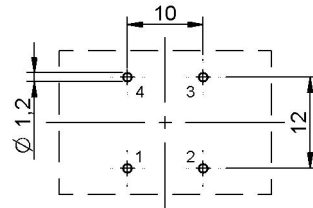


**A Dimensions: [mm]**



Scale - 1:1

**B Recommended hole pattern: [mm]**



Scale - 1:1

**C Schematic:**



**D Electrical Properties:**

Properties	Test conditions		Value	Unit	Tol.
Inductance	10 kHz/ 0.1 mA	L	2x 7.0	mH	+50%/-30%
Rated current	@ 70°C	I <sub>R</sub>	7.0	A	max.
DC Resistance	@ 20°C	R <sub>DC</sub>	2x 20	mΩ	max.
Rated voltage	50 Hz	U <sub>R</sub>	250	V (AC)	max.
Insulation test voltage	50 Hz/ 5 mA/ 2 sec.	U <sub>T</sub>	1500	V (AC)	

**E General information:**

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

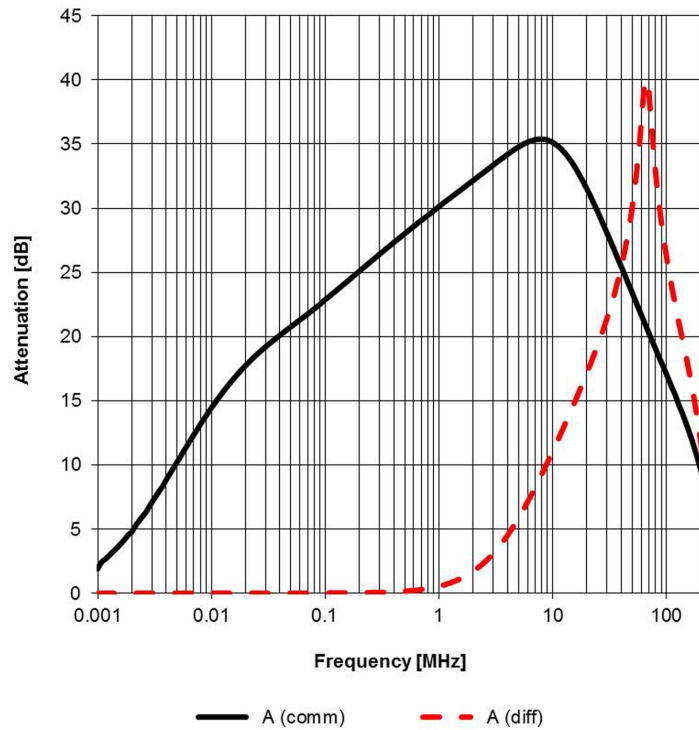
- Storage Temperature: -20°C to 60°C
- Operating Temperature: -40°C to 125°C
- Temperature Rise: < 55K
- Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently



REV	DATE	BY	CHECKED	Projection	DESCRIPTION	SIZE
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	<b>WE-CMBNC Common Mode Power Line Choke Nanocrystalline</b>	A4
2.0	2016-02-16	KaS	SRe			
1.3	2015-02-16	SSt	HasA			
1.2	2014-05-13	SSt	SSt			
1.1	2014-04-02	SSt	HasA			
1.0	2014-03-17	SSt	HasA			
					Order.- No.	
					<b>7448040707</b>	
					Size: Type L	



**F Typical Insertion Loss Characteristics:**



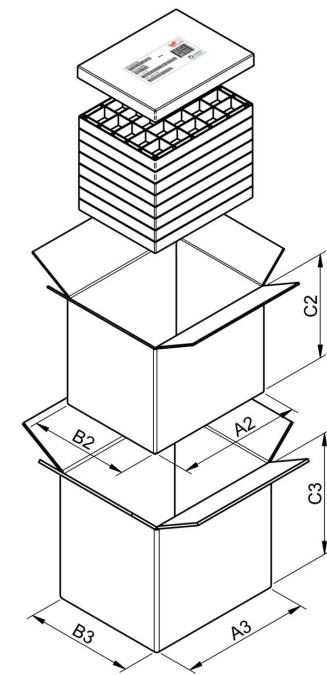
**Test Setup:**



				Projection 	DESCRIPTION			
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1.3	2015-02-16	SSt	HasA			<b>7448040707</b>		
1.2	2014-05-13	SSt	SSt					
1.1	2014-04-02	SSt	HasA					
1.0	2014-03-17	SSt	HasA					
REV	DATE	BY	CHECKED		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	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

REV	DATE	BY	CHECKED
2.1	2016-05-25	KaS	HasA
2.0	2016-02-16	KaS	SRe
1.3	2015-02-16	SSt	HasA
1.2	2014-05-13	SSt	SSt
1.1	2014-04-02	SSt	HasA
1.0	2014-03-17	SSt	HasA

Projection

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

DESCRIPTION

**WE-CMBNC Common Mode Power Line Choke Nanocrystalline**

Order.- No. **7448040707**

Size: Type L

COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK

SIZE  
A4

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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 - Temperature Min ( $T_{smin}$ ) - Temperature Typical ( $T_{stypical}$ ) - Temperature Max ( $T_{smax}$ ) - Time ( $t_p$ ) from ( $T_{smin}$ to $T_{smax}$ )	100°C 120°C 130°C 70 seconds	100°C 120°C 130°C 70 seconds
$\Delta$ 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 - Typical - Max	~ 2 K/s ~ 3.5 K/s ~ 5 K/s	~ 2 K/s ~ 3.5 K/s ~ 5 K/s
Time 25°C to 25°C	4 minutes	4 minutes

refer to EN 61760-1:2006

				Projection 	DESCRIPTION  <b>WE-CMBNC Common Mode Power Line Choke Nanocrystalline</b>		
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REV	DATE	BY	CHECKED		Size: Type L		

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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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1.3	2015-02-16	SSt	HasA		Order.- No.	
1.2	2014-05-13	SSt	SSt		<b>7448040707</b>	SIZE
1.1	2014-04-02	SSt	HasA			A4
1.0	2014-03-17	SSt	HasA		Size: Type L	
REV	DATE	BY	CHECKED			

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