# Applicable Cable Diameter: [mm]

**Electrical Properties:** 

Test conditions

Value

Unit

Tol.

Properties

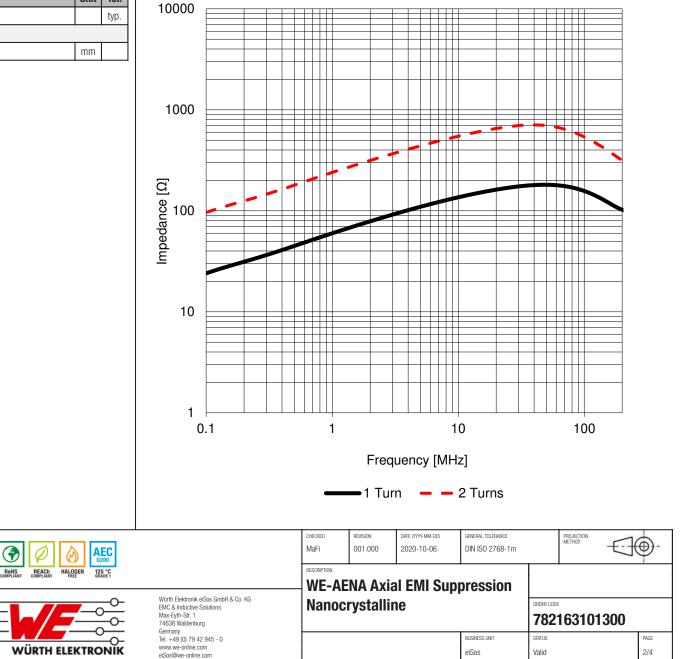
				Impedance @	100 kHz 1 tu	<b>Jrn</b> Z	100 kHz	20	Ω	±25%
				Impedance @	1 MHz 1 turi	n Z	1 MHz	60	Ω	±25%
30,0 ±0,5	21,3 ±0,2		$\langle \rangle$	AL Value		AL	10 kHz/ 300 mV	51.8	μH	±32%
				AL Value		AL	100 kHz/ 300 m\	/ 19	μH	min.
	Narking	φ <=10,2mm		Certificati	on:					
	<b>↓</b> - <b>(</b> - + - <b>)</b> - <b>)</b> -			RoHS Approva	ıl		Compliant [2	2011/65/EU&20 <sup>-</sup>	[5/863]	
				REACh Approv	<i>i</i> al		Conform or c	declared [(EC)190	7/2006]	
				Halogen Free			Confor	m [JEDEC JS709	B]	
	_10,5 ±0,2			Halogen Free			Conform	n [IEC 61249-2-	21]	
				Component Q	ualification		AEG	C-Q200 Grade 1		
			Scale - 1:1	Automotive A	pproval			Released		
						Cá	-40 up to +125 °C			
				General In		temperature of the component does not exceed +125 °C under worst case conditions				
				Operating Ten	nperature		-40	) up to +125 °C		
				Storage Conditions (in original packaging)			< 40 °C;< 75 % RH			
				Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently						
General Properties:	Scale - 1:1									
				CHECKED MAFI		DATE (YYYY MM-DO) 2020 - 10 - 06	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD		- ()-
Properties Cable Diameter Max.	Value         Unit           10.2         mm			MaFi		DATE (YYY+MM+DD) 2020-10-06	general tolerance DIN ISO 2768-1m	PROJECTION		- -
Material	Value Unit	ROMELIANT READEN HALDGEN ZEZO"		MaFi DESCRIPTION	001.000	2020-10-06	DIN ISO 2768-1m	PROJECTION METHOD		- -
Properties Cable Diameter Max.	Value         Unit           10.2         mm           6E33_3031	REACH COMPLIANT REACH REACH REACH RANGEN RANGEN RANGEN RANGEN REC CARCIN	Würth Elektronik eiSos GmbH & Co. KG	MaFi DESCRIPTION WE-AE	001.000	2020-10-06 EMI Sup				- -
Properties       Cable Diameter Max.       Material	Value         Unit           10.2         mm           6E33_3031	Reads ROMELLART READS READS READS READS READS HALDEEN READS HALDEEN READS READ	EMC & Inductive Solutions Max-Eyth-Str. 1	MaFi DESCRIPTION WE-AE	001.000	2020-10-06 EMI Sup	DIN ISO 2768-1m	ORDER CODE		<b>•</b> -
Properties Cable Diameter Max. Material	Value         Unit           10.2         mm           6E33_3031	RONS COMPLIANT REACT REA	EMC & Inductive Solutions	MaFi DESCRIPTION WE-AE	001.000	2020-10-06 EMI Sup	DIN ISO 2768-1m			- PAGE

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 evaluation checks for safety must be performed on every electronic component which is used in the require injury are deathing information. Functional control, train cont

# **Properties:**

Properties		Value	Unit	Tol.
Initial Permeability	μ <sub>i</sub>	30000		typ.
Test Cable		AWG26		
Test Cable Length		100	mm	

**Typical Impedance Characteristics:** 



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 and rel

# **Cautions and Warnings:**

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

## **General:**

- This electronic component is designed and manufactured for use in general electronic equipment.
- Würth Elektronik must be asked for written approval (following the PPAP procedure) before incorporating the components into any
  equipment in fields 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 the possibility of direct damage or human injury.
- · Electronic components that will be used in safety-critical or high-reliability applications, should be pre-evaluated by the customer.
- The component is designed and manufactured to be used within the datasheet specified values. If the usage and operation conditions
  specified in the datasheet are not met, the plastic housing or the insulation may be damaged or dissolved.
- Do not drop or impact the components, the component may be damaged.
- Würth Elektronik products are qualified according to international standards, which are listed in each product reliability report. Würth
  Elektronik does not warrant any customer qualified product characteristics beyond Würth Elektroniks' specifications, for its validity and
  sustainability over time.
- The responsibility for the applicability of the customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products also apply to customer specific products.

## **Product specific:**

## **Cleaning and Washing:**

 Washing agents used during the production to clean the customer application might damage or change the characteristics of the component. Washing agents may have a negative effect on the long-term functionality of the product.

# Potting:

If the product is potted in the customer application, the potting material might shrink or expand during and after hardening. Shrinking
could lead to an incomplete seal, allowing contaminants into the core. Expansion could damage the core. We recommend a manual
inspection after potting to avoid these effects.

# Winding:

The caused pressure by winding of the product could damage the product as well as negatively influence the magnetic characteristics

## **Storage Conditions:**

- A storage of Würth Elektronik products for longer than 12 months is not recommended. The material characteristics of the components form a limiting factor for the storage stability. Therefore, all products shall be used within the period of 12 months based on the day of shipment.
- Do not expose the components to direct sunlight.
- The storage conditions in the original packaging are defined according to DIN EN 61760-2.
- The storage conditions stated in the original packaging apply to the storage time and not to the transportation time of the components.

## Handling:

- · Violation of the technical product specifications such as exceeding the maximum outer diameter of the cable will void the warranty.
- The usage in an acid as well as salty environment can be the reason for oxide (rust) on the surface of the nanocrystalline body, damage
  or changes of the material characteristics. The acid or salty environment may have a negative effect on the long-term function of the
  product.
- If a component drops, it has to be sorted out as it might change its magnetic characteristics.
- Avoid touching damaged components.
- The temperature rise of the component must be taken into consideration. The operating temperature is comprised of ambient temperature and temperature rise of the component. The operating temperature of the component shall not exceed the maximum or minimum temperature specified.

These cautions and warnings 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.

		CHECKED MaFi	REVISION 001.000	DATE (YYYY-MM-DD) 2020-10-06	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	<u>-</u>
ROHS REACH HALOGEN 125 °C		WE-AENA Axial EMI Suppression						
	Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany	Nanoc	rystallir	ie		ORDER CODE 7821	63101300	
	einnany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com				BUSINESS UNIT eiSos	status Valid		PAGE 3/4

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 elSos GmbH & Co KG must be informed on every electronic component which is used in the reliability availation (automotive control, train control, ship control), train control, ship control, train control,

# **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 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.

		CHECKED MaFi	REVISION 001.000	DATE (YYYY-MM-DD) 2020-10-06	GENERAL TOLERANCE DIN ISO 2768-1m	PRO. METI		<b>⊕</b> -
		1		I EMI Sup				
Würth Elektronik eißos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Gernarw		Nanocrystalline				ORDER CODE 782163101300		
	eilSos@we-online.com				BUSINESS UNIT eiSos	status Valid		PAGE 4/4

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 elSos GmbH & Co KG must be informed on every electronic component which is used in the reliability availation (automotive control, train control, ship control), train control, ship control, train control,