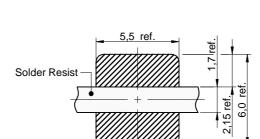
Dimensions: [mm]

2,0 ±0,4

5,8 ± 0,3



Recommended Land Pattern: [mm]

No vias and traces in restricted area

Electrical Properties:

•					
Properties		Test conditions	Value	Unit	Tol.
Inductance	L	10 kHz/ 100 mV	22	μH	±20%
Rated Current	I _R	$\Delta T = 40 \text{ K}$	1.28	А	max.
Saturation Current	I _{SAT}	ΔL/L < 10 %	1.53	А	typ.
DC Resistance	R _{DC}	@ 20 °C	0.109	Ω	typ.
DC Resistance	R _{DC}	@ 20 °C	0.18	Ω	max.
Self Resonant Frequency	f _{res}	@ 20 °C	16	MHz	typ.
Rated Voltage	V _R	@ 20 °C	80	V (DC)	max.

Certification:

Scale - 4:1

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACh Approval	Conform or declared [(EC)1907/2006]
Halogen Free	Conform [JEDEC JS709B]
Halogen Free	Conform [IEC 61249-2-21]
Component Qualification	AEC-Q200 Grade 1
Automotive Approval	Released

General Properties:

٨			It is recomme	ended that the	e temperature of ca	the component douse conditions	es not e	xceed +125 °C unde	r worst		
J					Ambient Temperature (referring to $I_{\rm R}$)			-40 up to +85 °C			
			Operating Te	mperature		-4	0 up to	+125 °C			
				Storage Conditions (in original packaging)			< 40 °C;< 75 % RH				
			Moisture Ser	sitivity Leve	el (MSL)		1				
- 5:1					Coplanarity of	he terminal pads:	120 µm				
			CHECKED PaC	REVISION 002.004	DATE (YYYY-MM-DD) 2021-11-25	general tolerance DIN ISO 2768-1m		PROJECTION METHOD	<u> </u>		
									1		
	ROHS REACH HALOGEN 125 °C Compliant compliant free grade 1			- 120 SW1	Dower In	ductor					
		Würth Elektronik eiSos GmbH & Co. KG)2A SM1	Power In	ductor	OBDER COD	F			
		EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg		D2A SM1	Power In	ductor	ORDER COD 784	^₅ 774122			
	WURTH	EMC & Inductive Solutions Max-Eyth-Str. 1)2A SM1	Power In	ductor Business unit			PAGE 1/7		

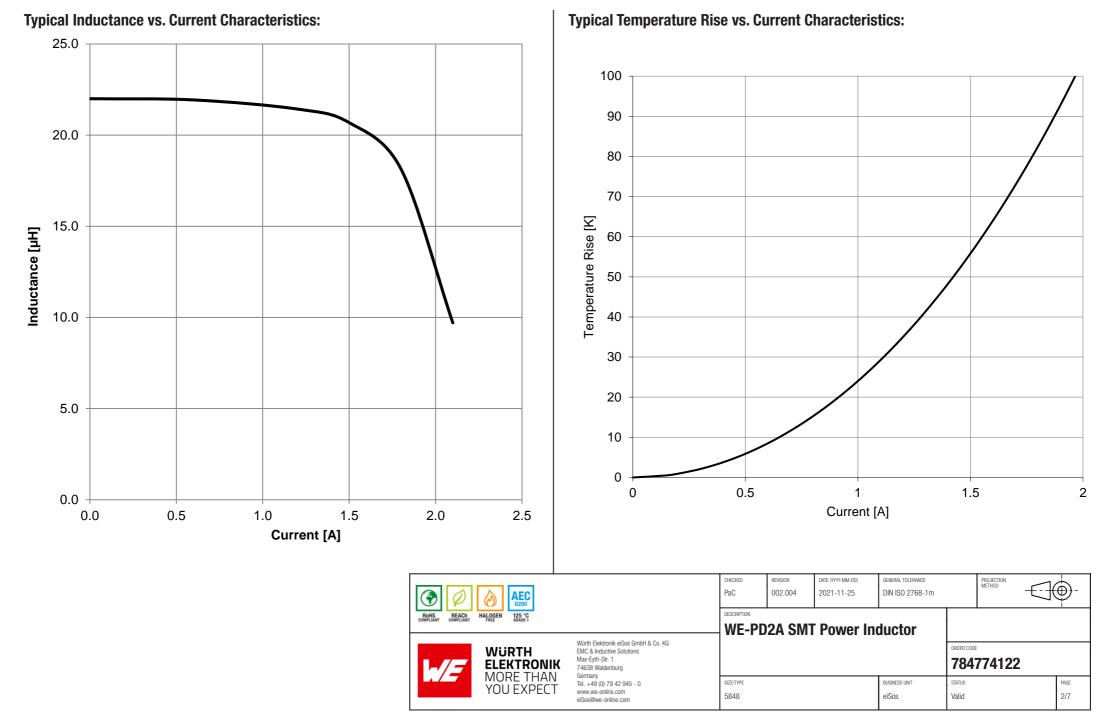
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is not authorized for use in equipment 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 Wirth 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 therefore 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, before the design-in stage, in addition, sufficient reliability transportation isgnal, disaster prevention, medical, public information network etc.. Wirth 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 high safety and reliability functions or performance.

Schematic:

Marking (ĥ C N

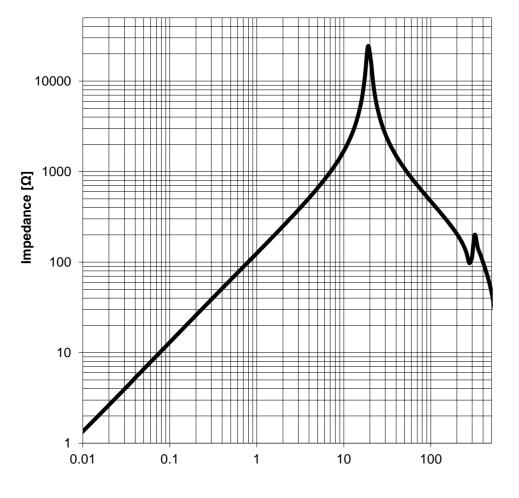
4,5 ±0,35

Start of Winding • Marking 220 (Inductance Code)



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Typical Impedance Characteristics:



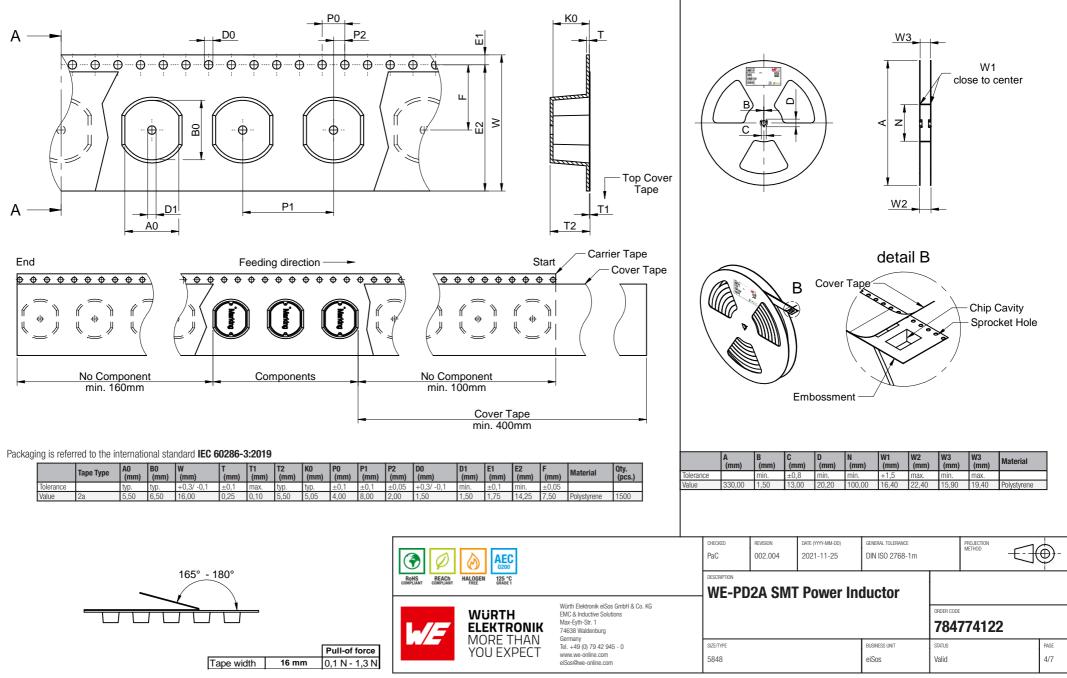
Frequency [MHz]

		CHECKED PaC	REVISION 002.004	DATE (YYYY-MM-DD) 2021-11-25	general tolerance DIN ISO 2768-1m	PROJECT METHOD		• -
ROHS REACH HALOGEN 125 °C		DESCRIPTION	2A SM1	Power Ind				
	Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany					ORDER CODE	122	
MORE THAN YOU EXPECT	elinariy Fel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com	size/type 5848			BUSINESS UNIT eiSos	status Valid		PAGE 3/7

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Packaging Specification - Tape: [mm]

Packaging Specification - Reel: [mm]



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Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min	T _{s min}	150 °C
Preheat Temperature Max	T _{s max}	200 °C
Preheat Time $\rm t_s$ from $\rm T_{s\ min}$ to $\rm T_{s\ max}$	t _s	60 - 120 seconds
Ramp-up Rate (T _L to T _P)		3 °C/ second max.
Liquidous Temperature	TL	217 °C
Time \mathbf{t}_{L} maintained above \mathbf{T}_{L}	tL	60 - 150 seconds
Peak package body temperature	Т _р	$T_p \le T_c$, see Table below
Time within 5°C of actual peak temperature	t _p	20 - 30 seconds
Ramp-down Rate (T_P to T_L)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.
		•

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature (T_c):

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly Package Thickness > 2.5 mm	250 °C	245 °C	245 °C
Sn-PB Assembly Package Thickness < 2.5 mm	235 °C	220 °C	
Sn-PB Assembly I Package Thickness ≥ 2.5 mm	220 °C	220 °C	

refer to IPC/ JEDEC J-STD-020E

			CHECKED PaC	REVISION 002.004	DATE (YYYY-MM-DD) 2021-11-25	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD		€-
ROHS REACH HALDGEN 125 °C COMPLIANT COMPLIANT HALDGEN 125 °C			DESCRIPTION	2A SMT	Power In					
		Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany					ORDER CODE	774122		
	YOU EXPECT	eeninany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 5848			BUSINESS UNIT eiSos	status Valid		1	PAGE 5/7

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Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-PD2A 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 costumer 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.

Washing varnish agent that is 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 varnish agent could have a negative effect on the long term function of the product.

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 reflow soldering specification, otherwise this will void the warranty.
- 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.
- Solvents may influence the product marking.

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.

ROMFLIANT COMPLIANT COMPLI		CHECKED PaC	REVISION 002.004	DATE (YYYY-MM-DD) 2021-11-25	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD	_ -	
		WE-PD2A SMT Power Inductor							
WURTH ELEKTRONIK MORE THAN YOU EXPECT		Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com		-			ORDER CODE 784	774122	
			size/type 5848			BUSINESS UNIT eiSos	status Valid		PAGE 6/7

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 uses evere personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik elSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, availation, nuclear control, ship control, train control, ship control, train control, ship control, train control, train control, train control, ship control, train control, ship control, train control, ship control, train control, ship control, train control, train control, ship control, train contro

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.

COMPLIANT COMPLIANT "PREE"" GRACE'		CHECKED PaC	REVISION 002.004	DATE (YYYY-MM-DD) 2021-11-25	general tolerance DIN ISO 2768-1m		PROJECTION METHOD		€-	
		WE-PD2A SMT Power Inductor								
-//5		Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany					ORDER CODE 784	774122		
	MORE THAN YOU EXPECT	elerinary Tel: +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com	size/type 5848			BUSINESS UNIT eiSos	status Valid		1	PAGE 7/7

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