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Wurth Electronics Inc 7447798151

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Δ.

B Recommended land pattern: [mm] A Dimensions: [mm] WÜRTH ELEKTRONĬK 3,4 ±0,5 **D Electrical Properties:** 6,3 Test conditions 10,6 Properties 5,8 Value Unit Tol. Inductance 100 kHz/ 5 mA 15 μH ±20% _3,0 ±0,2 Rated current $\Delta T = 40 \text{ K}$ 5.45 I_{R} А max. Saturation current $|\Delta L/L| < 10\%$ 4.0 А typ. Isat 10,2 ±0,3 DC Resistance @ 20°C 21.8 mΩ typ. R_{DC} DC Resistance @ 20°C 25.8 mΩ R_{DC} max. Scale - 2:1 Self resonant frequency 19 fres MHz typ. C Schematic: 6,4 max E General information: It is recommended that the temperature of the part does not exceed 150°C 10,2 ±0,3 under worst case operating conditions. Ambient temperature: -40°C to +110°C (refering to I_R) Operating temperature: -40°C to +150°C •Storage temperature (on tape & reel): -20°C to +40°C; 75% RH max. •Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently Scale - 2:1 DESCRIPTION Projection 3.6 2015-05-19 SSt ALa =Description Reference on drawing 3.5 2014-06-23 SSt SSt **WE-PDF SMD Shielded Power Inductor** Start of winding Würth Elektronik elSos GmbH & Co. KG ENC & Inductive Solutions Max-Eyrh-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com 3.4 2014-03-26 SSt SSt Marking 150 (Inductance Code) 3.3 2013-12-17 SSt SSt COMPLIANT ROHS&REACH WORTH ELEKTRONIK Order - No 3.2 2013-04-25 SSt SSt SIZE SSt 3.1 2013-02-20 ALa

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 Willin Electronic edition effects of entrol AC to product an entrol and to use in equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is specifically 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. In design - tags, in addition, sufficient fieldity evaluation checker is safety must be product is used in electrical crucits the transportation is used in electrical crucits the transportation or performance.

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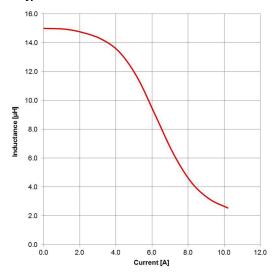
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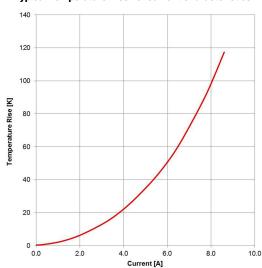
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F1 Typical Inductance vs. Current Characteristics:





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3.5	2014-06-23	SSt	SSt			WE-PDF SMD S	hielded Power Inducto	r
3.4	2014-03-26	SSt	SSt	Würth Elektronik eiSos Gmbł	H & Co. KG]		
3.3	2013-12-17	SSt	SSt	EMC & Inductive Solutions Max-Evth-Str. 1				
3.2	2013-04-25	SSt	SSt	74638 Waldenburg		Order No.	COMPLIANT	SIZE
3.1	2013-02-20	SSt	ALa	Germany Tel. +49 (0) 79 42 945 - 0			RoHS&REACh	OILL
3.0	2012-10-10	ALa	-	www.we-online.com eiSos@we-online.com				A4
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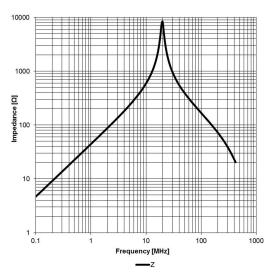
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety shandard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal rejury or death, unless the parties have executed an agreement specifically governing such use. Moreover Will Electronic edse from the dots are not the designed for use in equipment on intended for use in equipment and is used in electrical custors (automotive, tarsportation signal, disaster prevention, medical, public information network etc... With Electronic edse Graef & Co. KG must be informed about the intent of such usage before the design requires (automotive) and and the intent of such usage before the design requires (automotive) and and the intent of such usage before the design requires (automotive) and and the intent of such usage before the design requires (automotive) and and the intent of such usage before the design requires (automotive) and and the intent of such usage before the design requires (automotive) and and the intent of such usage before the design requires (automotive) and and the intent of such usage before the design requires (automotive) and and the intent of such usage before the design requires (automotive) and and the intent of such usage before the design requires (automotive) and and the intent of such usage before the design requires (automotive) and and the intent of such usage before the design requires (automotive) and and the intent of such usage (automotive) and and the intent of such usage before the design requires (automotive) and the intent of such usage the intent of such usage the such and the such of such usage before the design requires (automotive) and the intent of such usage before the design requires (automotive) and the intent of such usage before the design requires (automotive) and the intent of such usage (automotive) and the intent of such

F2 Typical Temperature Rise vs. Current Characteristics:





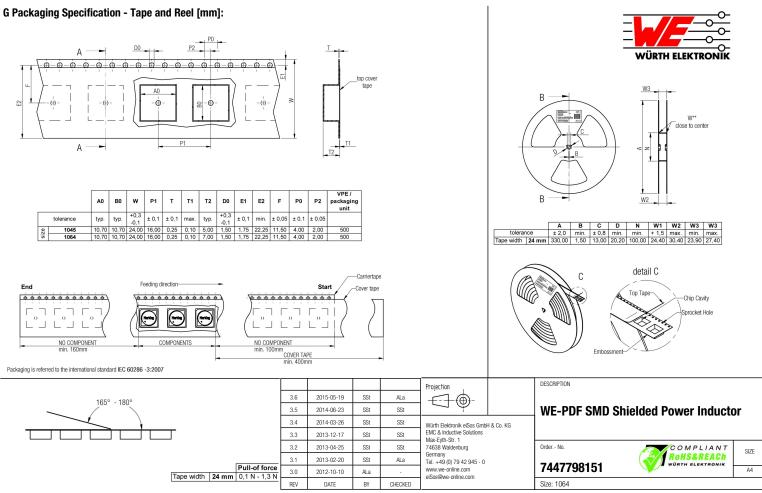
F3 Typical Impedance Characteristics:



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3.6	2015-05-19	SSt	ALa	-E-1-@-				
3.5	2014-06-23	SSt	SSt			WE-PDF SMD Shielded Power Inductor		
3.4	2014-03-26	SSt	SSt	Wurth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tet. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com				-
3.3	2013-12-17	SSt	SSt					
3.2	2013-04-25	SSt	SSt			Order No.	COMPLIANT	SIZE
3.1	2013-02-20	SSt	ALa			7447700454	ROHS&REACH	ULL
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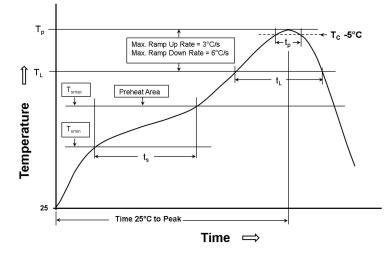
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H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

150°C 200°C 60-120 seconds 3°C/ second max.
01700
217°C 60-150 seconds
See Table H3
20-30 seconds
6°C/ second max.
8 minutes max.

refer to IPC/JEDEC J-STD-020D

H3: Package Classification Reflow Temperature

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

refer to IPC/JEDEC J-STD-020D

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I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-PDF 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 core material 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.

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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3.0	2012-10-10	ALa	-	www.we-online.com eiSos@we-online.com				A4	
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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 responsibi-lity 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 thrman 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 stan-dard 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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