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Wurth Electronics Inc 744043151

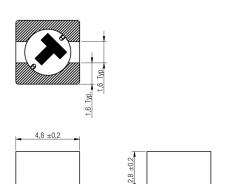
For any questions, you can email us directly: sales@integrated-circuit.com



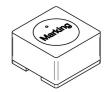
Datasheet of 744043151 - FIXED IND 150UH 420MA 860 MOHM

more than you expect

A Dimensions: [mm]



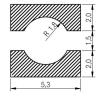




Reference on drawing	Description		
•	Start of winding		
Marking	151 (Inductance Code)		

B Recommended land pattern: [mm]

C Schematic:





D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 100 mV	L	150	μН	±30%
Rated current	$\Delta T = 30 \text{ K}$	I _R	0.42	Α	max.
Saturation current	IΔL/LI < 35%	I _{sat}	0.22	Α	typ.
DC Resistance	@ 20°C	R_{DC}	770	mΩ	typ.
DC Resistance	@ 20°C	R _{DC}	860	mΩ	max.
Self resonant frequency		fres	7	MHz	typ.

E General information:

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

- Ambient temperature: -40°C to +95°C (refering to I_R)
 Operating temperature: -40°C to +125°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

				Projection		DESCRIPTION			
						WE-TPC SMD S	Shielded Tiny Power Inc	ductor	
6.4	2015-01-29	SSt	JRS	Würth Elektronik eiSos Gmbl	H & Co. KG	1	morada imiy i diroi im	uu 0101	
6.3	2014-09-11	SSt	JRS	EMC & Inductive Solutions Max-Evth-Str. 1					
6.2	2014-04-01	SSt	SSt	74638 Waldenburg		Order No.	COMPLIANT	SIZE	
6.1	2013-04-08	SSt	COt	Germany Tel. +49 (0) 79 42 945 - 0		744040454	ROHS&REACH	OLL	
6.0	2010-08-01	CZ	-	www.we-online.com eiSos@we-online.com		744043151	TOTAL ELEKTRONIA	A4	
REV	DATE	BY	CHECKED	eiSos@we-online.com		Size: 4828			

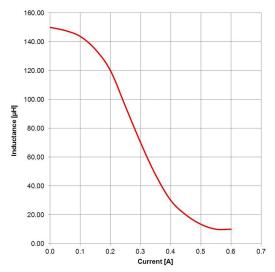




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F1 Typical Inductance vs. Current Characteristics:



				Projection ————————————————————————————————————		DESCRIPTION WE-TPC SMD S	hielded Tiny Power Inducto
6.4	2015-01-29	SSt	JRS	Würth Elektronik eiSos Gmbl-	H & Co. KG		• • • • • • • • • • • • • • • • • • • •
6.3	2014-09-11	SSt	JRS	EMC & Inductive Solutions Max-Evth-Str. 1			
6.2	2014-04-01	SSt	SSt	74638 Waldenburg		Order No.	COMPLIANT
6.1	2013-04-08	SSt	COt	Germany Tel. +49 (0) 79 42 945 - 0		-440404-4	ROHS&REACH WÜRTH ELEKTRONIK
6.0	2010-08-01	CZ	-	www.we-online.com eiSos@we-online.com		744043151	A4
REV	DATE	BY	CHECKED			Size: 4828	

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 equiend 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 Wilm Elektronic ReSos Grint A Co NG products are neither designed nor intended for use in a reasonable, acreage, existion, number of a reliability and a reliability and a reliability and a reliability metal and reliability and a reliability and a reliability metal and reliability and a reliability metal and reliability metal and reliability and a reliability metal and reliability metal an



Datasheet of 744043151 - FIXED IND 150UH 420MA 860 MOHM

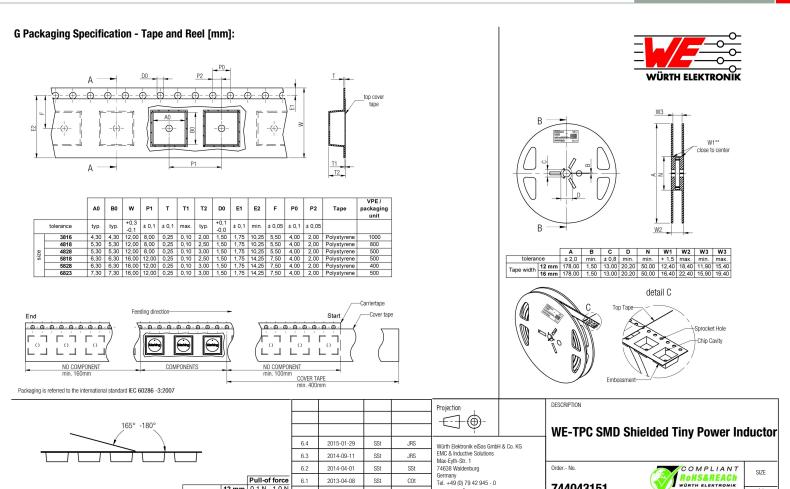
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COMPLIANT ROHS&REACH WÜRTH ELEKTRONIK

744043151

Size: 4828

SIZE



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SSt

CZ

6.3

6.1

6.0

 Pull-of force

 Tape width
 12 mm
 0,1 N - 1,0 N

 16 mm
 0,1 N - 1,3 N

2014-09-11

2014-04-01

2013-04-08

2010-08-01

DATE



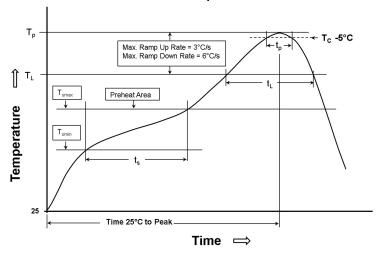
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H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Preheat - Temperature Min (T _{smin}) - Temperature Max (T _{smax}) - Time (t _s) from (T _{smin} to T _{smax})	150°C 200°C 60-120 seconds
Ramp-up rate (T _L to T _P)	3°C/ second max.
Liquidous temperature (T _L) Time (t _L) maintained above T _L	217°C 60-150 seconds
Peak package body temperature (Tp)	See Table H3
Time within 5°C of actual peak temperature (tp)	20-30 seconds, except T _p 260°C at t _p 10 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-020D

H3: Package Classification Reflow Temperature

	Package Thickness	Volume mm³ <350	Volume mm ³ 350 - 2000	Volume mm³ >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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6.4	2015-01-29	SSt	JRS	Würth Elektronik eiSos Gmbi	H & Co. KG		moraoa mij i omor mi	
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6.0	2010-08-01	CZ	-	www.we-online.com eiSos@we-online.com		744043151	TOWN BEEKINGHIN	A4
REV	DATE	BY	CHECKED	elous@we-urillite.com		Size: 4828		

In section component has been because or progress as to use a separate account or opportunity or location, unless the parties name recovered as a green in speciment with a control, transportation signal, disaster prevention, medical, public information network etc.. With Elektronik eSos 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.



Datasheet of 744043151 - FIXED IND 150UH 420MA 860 MOHM

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I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-TPC 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 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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6.4	2015-01-29	SSt	JRS	Würth Elektronik eiSos Gmbl	H & Co. KG		,		
6.3	2014-09-11	SSt	JRS	EMC & Inductive Solutions Max-Evth-Str. 1					
6.2	2014-04-01	SSt	SSt	74638 Waldenburg	74638 Waldenburg	Order No.	COMPLIANT	SIZE	
6.1	2013-04-08	SSt	COt	Germany Tel. +49 (0) 79 42 945 - 0		-44040454	ROHS&REACH	OILL	
6.0	2010-08-01	CZ	-	www.we-online.com eiSos@we-online.com		744043151	TOWN ELEKTRONIA	A4	
REV	DATE	BY	CHECKED	CIOUS@WC-UTIIITE.CUTT		Size: 4828			

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 Wilm Elektronic Resides Genirit & Co Kit or products are neither designed and on the control, transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Resides Genital & Co Kit or use to effect and on the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Resides Genital & Co Kit or use to effect and on the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Resides Genital & Co Kit or use to effect and on the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Resides Genital & Co Kit or use to effect and on the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Resides of the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Residence of the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Residence of the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Residence of the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Residence of the control transportation signal, disaster prevention, medical public residence of the control transportation signal, disaster prevention, medical public residence of the control transportation of the control transportation of the control transportation





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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 spe cific 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.

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.

				Projection		DESCRIPTION				
										
				7 +		\lrcorner WE-TPC SMD $\$$	Shielded Tiny Power Ind	uctor		
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6.1	2013-04-08	SSt	COt	Germany Tel. +49 (0) 79 42 945 - 0		744040454	ROHS&REACH			
6.0	2010-08-01	CZ	-	www.we-online.com eiSos@we-online.com		744043151	- ISATA BEBRIADAN	A4		
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Lectronic 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 equipment 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 usage.

Wer Wilth Elektronik eSos GrnbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, standard and reliability standard is especially expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such usage before significant for a standard and reliability for the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such usage before significant reliability sentences.

Wilth Elektronic eSos GrnbH & Co KG must be informed about the intent of such usage before significant 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.