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Wurth Electronics Inc 744914117

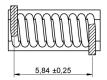
For any questions, you can email us directly: sales@integrated-circuit.com

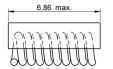


Datasheet of 744914117 - FIXED IND 17.5NH 4A 4.5 MOHM SMD

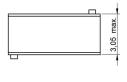
more than you expect

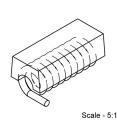
A Dimensions: [mm]



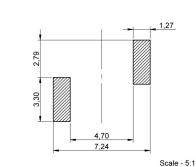
















D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	150 MHz	L	17.5	nH	±5%
Q-factor	150 MHz	Q	100		min.
DC Resistance	@ 20°C	R _{DC}	4.5	mΩ	max.
Rated current	$\Delta T = 15 \text{ K}$	IR	4.0	Α	max.
Self resonant frequency		f _{res}	2.2	GHz	min.

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 +110°C (refering to I_R)
 Operating temperature: -40°C to +125°C

- •Storage temperature (on tape & reel): -10°C to +40°C; 30 to 70% RH max. •Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently

Projection $\bigoplus \bigoplus$ Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (10) 79 42 945 - 0 www.we-online.com eiSos@we-online.com 2015-02-12 SSt HBH DATE CHECKED

WE-CAIR Air coil

Order - No

DESCRIPTION

744914117 Size: 3168

COMPLIANT ROHS&REACH WÜRTH ELEKTRONIK

SIZE

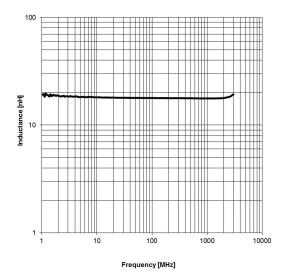




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F1 Typical Inductance vs. Frequency Characteristics:



				Projection		DESCRIPTION			
						WE-CAIR Air coil			
				Würth Elektronik eiSos Gmbl- EMC & Inductive Solutions	H & Co. KG	7			
				Max-Eyth-Str. 1 74638 Waldenburg Germany		Order No.	COMPLIANT ROHS&REACH	SIZE	
1.0	2015-02-12	SSt	НВН	Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		744914117	WÜRTH ELEKTRONIK	A4	
REV	DATE	BY	CHECKED	CIOUSWING-UIIIIIE.CUIII		Size: 3168			

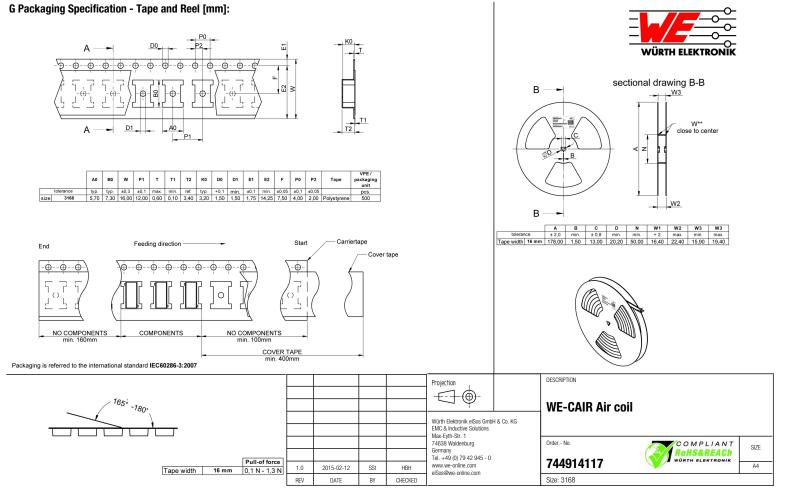
nic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially governing such use.

Ided for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (authorities control, transportation signal, disaster prevention, medical, public information network etc.. Wifth Elektronik eSos GmbH & Co KS must be informed about the intent of such usage before
performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.



Datasheet of 744914117 - FIXED IND 17.5NH 4A 4.5 MOHM SMD

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its 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. foreover With Elektronic RSGs (products are neither designed on intended for use in areas such as military, aerospace, aviation, nuclear control, sharmarine, reasonable, authorized no correle, transportation signal, disaster prevention, medical, public information network etc... With Elektronic RSGs (mith & Co KG) must be informed about the intent of such usage before to design-1-stage, in edition, surficient reliability elevation devices, for safety must be performed on every electronic component within its used in electrical customs that require high safety or performance.



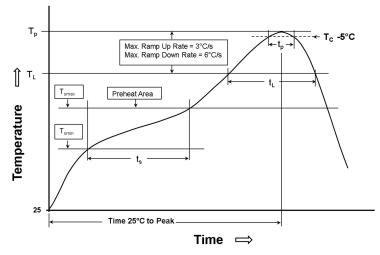
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H Soldering Specifications:



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 (T _p)	See Table H3
Time within 5°C of actual peak temperature (tp)	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-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

				Projection		DESCRIPTION		
						WE-CAIR Air coil		
				Würth Elektronik eiSos Gmbl EMC & Inductive Solutions	H & Co. KG			
				Max-Eyth-Str. 1 74638 Waldenburg Germany		Order No.	COMPLIANT	
1.0	2015-02-12	SSt	НВН	Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		744914117	WÜRTH ELEKTRONIK	A4
REV	DATE	BY	CHECKED	eiSos@we-online.com		Size: 3168		

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I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-CAIR 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 compiled 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.
- •Strong forces might have the effect to damage the coplanarity of the electrical connection (pins), will restrain the soldering and void the warranty.
- Please notice that the recommended thickness of the soldering paste is 120 μm

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.

				Projection .		DESCRIPTION			
						WE-CAIR Air coil			
				Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions	H & Co. KG	WE-CAIN AII COII			
				Max-Eyth-Str. 1 74638 Waldenburg Germany		Order No.	COMPLIANT	SIZE	
1.0	2015-02-12	SSt	НВН	Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		744914117 ROHS&REAG		A4	
RFV	DATE	BY	CHECKED	elous@we-utilite.cutt		Size: 3168			

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 With Elektronic Residency (Sein HA & CN KG must be interested for use in a reasonable, and reliability standard or electronic signal, desister prevention, medical, public information network etc.. With Elektronic Residency (Sein HA & CN KG must be informed about the interest of such usage before the design-in stage, and addition, sufficient reliability evaluation checkeds for safety must be performance on every electronic component without its useful relectricies of an effective product or performance.





Datasheet of 744914117 - FIXED IND 17.5NH 4A 4.5 MOHM SMD

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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		
				9		WE-CAIR Air coil		
				Würth Elektronik eiSos Gmb	H & Co. KG			
				EMC & Inductive Solutions Max-Eyth-Str. 1				
				74638 Waldenburg		Order No.	COMPLIANT	SIZE
				Germany Tel. +49 (0) 79 42 945 - 0		74404447	ROHS&REACH	OLL
1.0	2015-02-12	SSt	НВН	www.we-online.com eiSos@we-online.com		744914117	TOWN BEEN HOURS	A4
REV	DATE	BY	CHECKED	CISUS@WE-UIIIIIE.CUIII		Size: 3168		

ectronic 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.

With Elektronik eSos Grint H. & Cox KG products are neither designed nor intended for use in a reass such as military, aerospace, aviation, nuclear coincid, submarine, transportation signal, dessate prevention, medical, public information network etc. With Elektronik eSos Grint H. & Cox KG must be informed about the intent of such usage before sign-in-stage. In addition, authorized personable control, transportation signal, dessate prevention, medical, public information network etc. With Elektronik eSos Grint H. & Cox KG must be informed about the intent of such usage before sign-in-stage. In addition, afficient reliability exactions or preferrance.