

Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

Wurth Electronics Inc 74408941050

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



Distributor of Wurth Electronics Inc: Excellent Integrated System Limited Datasheet of 74408941050 - FIXED IND 5UH 1.4A 140 MOHM SMD

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A Dimensions: [mm]		B Rec	ommende	d land	pattern:	[mm]			=		/_	0	-
			-	5,3	-		D Electric	cal Prone	- - erties:	- <mark>WÜR</mark>	TH ELEK		- C
						_		•					
				+		1,5 5,5	Induc	erties	Test conditions 100 kHz/ 1 mA		Value 5.0	Unit µH	Tol. ±20%
1,4							Rated		ΔT = 40 K	I _R	1.40	A	±20% max.
							Saturatio		Δ1 = 40 K IΔL/LI < 35%		2.50	A	typ.
	<u>)</u> 3			minin			DC Res		@ 20°C	R _{DC}	0.117	Ω	typ.
4,80 ±0,3	$\frac{1,80 \pm 0.3}{0.07}$						DC Res		@ 20°C	RDC	0.140	Ω	max.
	<u>1,80</u>					Scale - 5:1		nt frequency		fres	43	MHz	typ.
Marking 08 P	Scale - 5:1			γ	$\gamma\gamma$	<u> </u>	under worst •Ambient to •Operating •Storage to •Test cond	ended that case opera emperature temperature emperature itions of Ele ified differe	the temperature ting conditions. : -40°C to +85°C re: -40°C to +125 (on tape & reel): ectrical Properties	C (referinç 5°C -20°C to	g to I _R) +40°C; 7{		
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Reference on drawing	Description	1.9	2016-03-01 2015-05-19	KaS SST		Projection	It is recomm under worst •Ambient tu •Operating •Storage te •Test cond	ended that case opera emperature temperature itions of Ele cified differe	the temperature ting conditions. : -40°C to +85°C re: -40°C to +129 (on tape & reel): - corrical Properties ently	C (refering 5°C -20°C to :: 20°C, 3	g to I _R) +40°C; 75 3% RH	5% RH ma	х.
Reference on drawing	Description Start of winding	1.8	2015-05-19	SSt	ALa		It is recomm under worst •Ambient tr •Operating •Storage te •Test cond if not spec	ended that case opera emperature temperature itions of Ele cified differe	the temperature ting conditions. : -40°C to +85°C re: -40°C to +125 (on tape & reel): ectrical Properties	C (refering 5°C -20°C to :: 20°C, 3	g to I _R) +40°C; 75 3% RH	5% RH ma	х.
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Reference on drawing	Description Start of winding	1.8 1.7 1.6	2015-05-19	SSt	ALa	Würth Elektronik elSos Gmb EMC & Inductive Solutions Max-Eyth-Str. 1	It is recomm under worst •Ambient tr •Operating •Storage te •Test cond if not spec	ended that case opera emperature temperature itions of Ele cified differe	the temperature ting conditions. : -40°C to +85°C re: -40°C to +129 (on tape & reel): - corrical Properties ently	C (refering 5°C -20°C to :: 20°C, 3	g to I _R) +40°C; 7! 3% RH Power	5% RH ma	x. tor
Reference on drawing	Description Start of winding	1.8 1.7	2015-05-19 2014-06-23 2014-03-31	SSt SSt SSt	ALa SSt SSt	Würth Elektronik elSos Gmb	It is recomm under worst •Ambient tr •Operating •Storage te •Test cond if not spec	ended that case opera emperature temperature itions of Ele ified differe DESCRIPTION WE-SF	the temperature ting conditions. : -40°C to +85°C re: -40°C to +129 (on tape & reel): - corrical Properties ently	C (refering 5°C -20°C to :: 20°C, 3	g to I _R) +40°C; 7! 3% RH Power	5% RH ma	tor

BY CHECKED Size: 4818 The electronic component has been designed and developed for usage in general electronic explorment only. This product is not authorized for use in equipment where a higher safety standard and reliability distandard 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 Elektronik edsiss final & Co KG products are notified for use in areas such a maltan, arrangazo, aviation, nutrient arrangortation (automotive control, hancorotic), transportation signal, disaster prevention, medical, public information network etc... With Elektronik edsiss final website and the internet of such usage before the design-in stags). The addition, afford the final transportation signal, disaster prevention, medical, public information network etc... With Elektronik edsiss final base in electrical circuits that require this stage and reliability disattor of specifical and or reliability disattor disaster prevention, medical, public information network etc... With Elektronik edsiss final base in electrical circuits that require this stage and reliability disattor of specifical and reliability disattor of specifical and reliability disattor disaster prevention, medical, public information network etc... With Elektronik edsis that the internet of such usage before the design-in stags), and the design in stags in a reliability disattor disaster prevention, medical, public information network etc... With Elektronik edsis that the effect of edsis that the reliability disattor disaster prevention, medical, public information network etc... With Elektronik edsis that the effect of edsis that the reliability disattor of the reliability disattor effect of edsis that the effect of edsis tha

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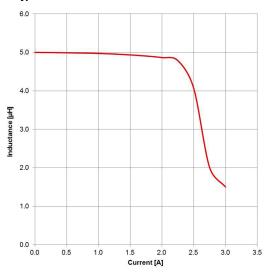
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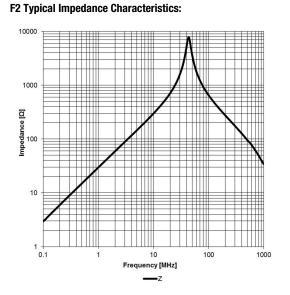


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F1 Typical Inductance vs. Current Characteristics:



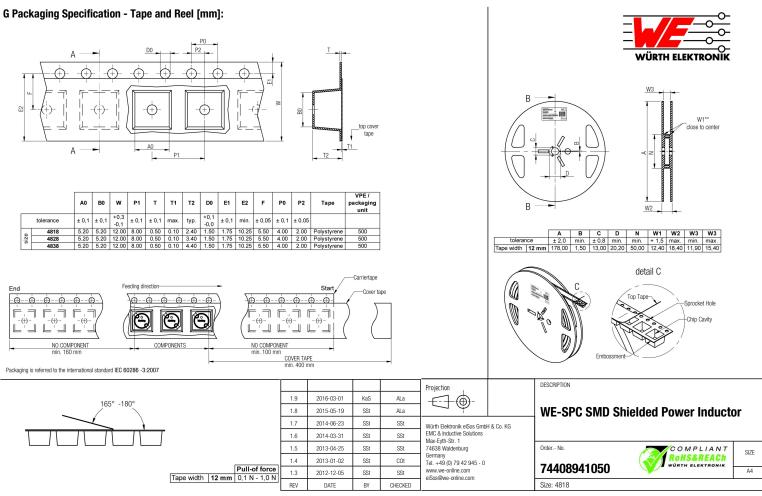


1.9				Projection		DESCRIPTION					
	2016-03-01	KaS	ALa	-E-1-@-							
1.8	2015-05-19	SSt	ALa	9		WE-SPC SMD Sh	ielded Power Inducto	r			
1.7	2014-06-23	SSt	SSt	Würth Elektronik eiSos Gmbł	H & Co. KG						
1.6	2014-03-31	SSt	SSt	EMC & Inductive Solutions Max-Evth-Str. 1							
1.5	2013-04-25	SSt	SSt	74638 Waldenburg		Order No.	COMPLIANT	SIZE			
1.4	2013-01-02	SSt	COt	Germany Tel. +49 (0) 79 42 945 - 0			WÜRTH ELEKTRONIK	UILL			
1.3	2012-12-05	SSt	SSt	www.we-online.com eiSos@we-online.com		74408941050		A4			
REV	DATE	BY	CHECKED	elsos@we-online.com		Size: 4818					

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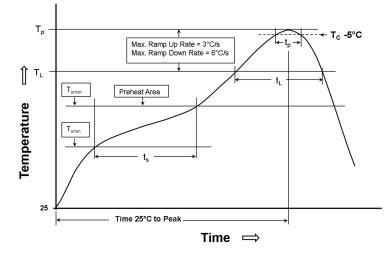
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H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Feature Pb-Free Assem	nbly
t	5
up rate (T _L to T _P) 3°C/ second ma	Х.
us temperature (T _L) 217°C L) maintained above T _L 60-150 seconds	5
ackage body temperature (T _p) See Table H3	
ithin 5°C of actual peak temperature (t_p) 20-30 seconds	
down rate (T _P to T _L) 6°C/ second ma	Х.
5°C to peak temperature 8 minutes max.	
5°C to peak temperature 8 minutes m	1ax.

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

				Projection ,		DESCRIPTION		
1.9	2016-03-01	KaS	ALa					
1.8	2015-05-19	SSt	ALa	$\Box \Psi$		WE-SPC SMD Sh	ielded Power Inducto	or 🛛
1.7	2014-06-23	SSt	SSt	Würth Elektronik eiSos Gmb	H & Co. KG			-
1.6	2014-03-31	SSt	SSt	EMC & Inductive Solutions Max-Evth-Str. 1				
1.5	2013-04-25	SSt	SSt	74638 Waldenburg		Order No.	COMPLIANT	SIZE
1.4	2013-01-02	SSt	COt	Germany Tel. +49 (0) 79 42 945 - 0			ROHS&REACH	UILL
1.3	2012-12-05	SSt	SSt	www.we-online.com eiSos@we-online.com		74408941050		A4
REV	DATE	BY	CHECKED	CIGUS/SINC-UNITE.CUTT		Size: 4818		

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I Cautions and Warnings:

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

				Projection .		DESCRIPTION		
1.9	2016-03-01	KaS	ALa	-E-1-@-				
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1.7	2014-06-23	SSt	SSt	Würth Elektronik eiSos Gmbl	H & Co. KG			-
1.6	2014-03-31	SSt	SSt	EMC & Inductive Solutions Max-Evth-Str. 1				
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1.4	2013-01-02	SSt	COt	Germany Tel. +49 (0) 79 42 945 - 0		74400044050	ROHS&REACH	OILL
1.3	2012-12-05	SSt	SSt	www.we-online.com eiSos@we-online.com		74408941050		A4
REV	DATE	BY	CHECKED	CIDOS SINC OTHER.COTT		Size: 4818		

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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.

				Projection .		DESCRIPTION		
1.9	2016-03-01	KaS	ALa	-E-1-@-				
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1.7	2014-06-23	SSt	SSt	Würth Elektronik eiSos Gmbł	H & Co. KG			
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1.5	2013-04-25	SSt	SSt	74638 Waldenburg		Order No.	COMPLIANT	SIZE
1.4	2013-01-02	SSt	COt	Germany Tel. +49 (0) 79 42 945 - 0		74400044050	ROHS&REACH	OILL
1.3	2012-12-05	SSt	SSt	www.we-online.com eiSos@we-online.com		74408941050		A4
REV	DATE	BY	CHECKED	CIOUS SINC OILINE.COIL		Size: 4818		

Her 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, transportation (automotive control, train control, stan portation signal, disaster prevention, medical, public information network etc... Wurth Elektronik eSos GmbH & Co KG must be informed about the internit of such usage before in pills safety and reliability functions or performance. lectronic equipment only. This product is not authorized for use in equipment where a high intended for use in areas such as military, aerospace, aviation, nuclear control, submarine st be performed on every electronic component which is used in electrical circuits that req nent has been designed and developed for usage in general electronic e ronik elSos GmbH & Co KG products are neither designed nor intended f n addition, sufficient reliability evaluation checks for safety must be perfor in stage. In addition, sufficien

