

Excellent Integrated System Limited

Stocking Distributor

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

Wurth Electronics Inc 74437334082

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



A Dimensions: [mm]		B Rec	ommende	d land	pattern:	[mm]			Ξ		/_		
202 102 103 103			-		00 20 1,90	D Electrical Properties:							-
							Propert		st conditions		Value	Unit	Tol.
11.00			2.8			Inducta		0 kHz/ 10 mA		8.2	μH	±20%	
1,1 ±0,3						Rated cu		∆T = 40 K	R	1.9	A	max.	
						Saturation		∆L/LI < 20%	Isat	4.5	A	typ.	
	2		Solder Resist-				DC Resist		@ 20°C	R _{DC}	148	mΩ	typ.
5,7 ±0,3	07					10	DC Resist		@ 20°C	R _{DC}	171	mΩ	max.
5,20 ±0,2	¹ ,8		no vias and traces in restricted area Scale - 5:1			Self resonant	frequency		fres	20	MHz	typ.	
Marking 25	Scale - 3:1						It is recommen under worst c. •Ambient ter •Operating te •Storage ter •Test conditi if not specifi	information inded that the trase operating of mperature: -40 emperature: -4 nperature (on training of Electrica field differently	temperature o conditions. 0°C to +85°C 40°C to +125 tape & reel): - al Properties:	; (refering 5°C 20°C to	ı to I _R) +40°C; 78		
						Projection		DESCRIPTION					
Reference on drawing	Description					-€-+®-		\A/F_111841				-	
Marking	8R2 (Inductance Code)					·		WE-LHMI	I SIVID PO	ower I	naucto	r	
		10	0015 05 10	001		Würth Elektronik eiSos Gmb EMC & Inductive Solutions	0H & Co. KG						
		1.3	2015-05-18	SSt	DDe	Max-Eyth-Str. 1	F	Order No.		_			
		1.2	2014-09-04	SSt	DDe	74638 Waldenburg Germany		ordef NO.		2		REACH	SIZE
		1.1	2014-09-02	SSt	DDe	Tel. +49 (0) 79 42 945 - 0 www.we-online.com		74437334	4082		WÜRTH E	EKTRONIK	A4
		1.0	2014-06-03	SSt	DDe	eiSos@we-online.com	F		IUUL				A4

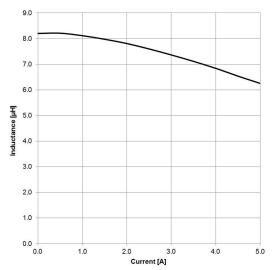
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 Size: 5020

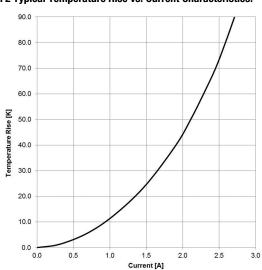
 This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability datatorial despendary required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such usage before the designed reliability datatorial designed and developed for usage in general electronic component thinks be interfed size and transportation (automotive control, transportation signal, disaster prevention, medical, justice information networks etc... Wirth Elektronic ASS Grinth & Co XSI must be informed about the interfed discusses the reliability datatorial descriptory and control, transportation signal, disaster prevention, medical, justice information networks etc... Wirth Elektronic ASS Grinth & Co XSI must be informed about the interfed discusses the reliability advatorial descriptory and control reliability advatorial descriptory and control.
 Size: 5020





F1 Typical Inductance vs. Current Characteristics:



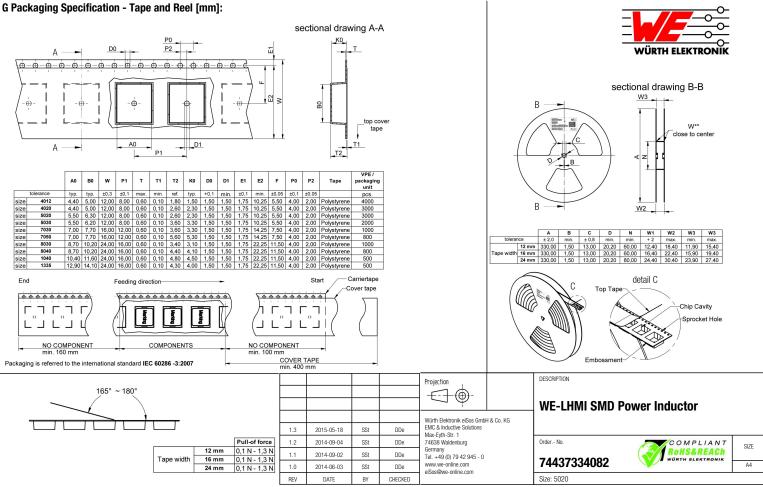


F2 Typical Temperature Rise vs. Current Characteristics:

				Projection	DESCRIPTION
					WE-LHMI SMD Power Inductor
				Würth Elektronik eiSos GmbH & Co. K	
1.3	2015-05-18	SSt	DDe	EMC & Inductive Solutions Max-Eyth-Str. 1	-
1.2	2014-09-04	SSt	DDe	74638 Waldenburg	Order No.
1.1	2014-09-02	SSt	DDe	Germany Tel. +49 (0) 79 42 945 - 0	Rohs&Reach
1.0	2014-06-03	SSt	DDe	www.we-online.com eiSos@we-online.com	74437334082
REV	DATE	BY	CHECKED	CIGUS/ENVC-UNINE.CUM	Size: 5020

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 dandard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or destin, unlies the parties have executed an agreement specifically governing such usa. Moreover With Elektronic edsSc EmH & Co XK products are netified for use in meass such as millitary, arrangoa, aviation, nuclear and reliability dandard is sepecially required or where a failure of the product is reasonably expected to cause severe personal injury or destin, unlies the parties have executed an agreement specifically governing such usa. Moreover With Elektronic edsSc EmH & Co XK products are netified for use in meass such as military calified and the reliability dandard is prevention, medical, justic information network etc. . With Elektronic edsSc EmH & Co XK products are netified for use in equipment where a transportation (submit effect are constrained in a reliability dandard or effect and constrained in the reliability dandard or effect and constrai





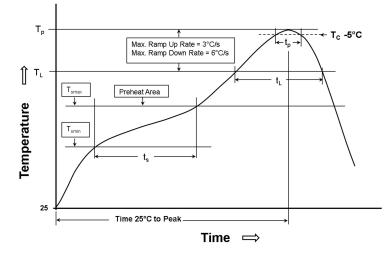
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H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

150°C 200°C 60-120 seconds 3°C/ second max.
3°C/ second max.
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

				Projection		DESCRIPTION					
						🔄 WE-LHMI SMD F	Power Inductor				
				Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) (79 42 945 - 0							
1.3	2015-05-18	SSt	DDe								
1.2	2014-09-04	SSt	DDe			Order No.	COMPLIANT	SIZE			
1.1	2014-09-02	SSt	DDe			74407004000	ROHS&REACh				
1.0	2014-06-03	SSt	DDe	www.we-online.com eiSos@we-online.com		74437334082		A4			
REV	DATE	BY	CHECKED	CIOUS/SAWC-UTIHIC.CUTH		Size: 5020					

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I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-LHMI 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 iron powder material of the core could flake or in the worst case it could break

Product specific:

Follow all instructions mentioned in the datasheet, 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	ower Inductor			
1.3	2015-05-18	SSt	DDe	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg						
1.2	2014-09-04	SSt	DDe			Order No.	COMPLIANT	SIZE		
1.1	2014-09-02	SSt	DDe	Germany Tel. +49 (0) 79 42 945 - 0			ROHS&REACH	OILL		
1.0	2014-06-03	SSt	DDe	www.we-online.com eiSos@we-online.com		74437334082		A4		
REV	DATE	BY	CHECKED	CIOUS/GIVE-UNITE.CUTT		Size: 5020				

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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 WE-LHMI SMD P	ower Inductor				
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1.2	2014-09-04	SSt	DDe			Order No.	COMPLIANT	SIZE			
1.1	2014-09-02	SSt	DDe	Germany Tel. +49 (0) 79 42 945 - 0			ROHS&REACH	JIZL			
1.0	2014-06-03	SSt	DDe	www.we-online.com eiSos@we-online.com		74437334082		A4			
REV	DATE	BY	CHECKED			Size: 5020					

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. actronic 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 si er Wühn Bederonik elsce Gmith & Co KS products are neither designed nor intended for use in areas such as military, aerospace, avladion, nouelear control, submarine, tra-gin-s fase), na dation, sufficient reliable yealaution checks for stady must be performed no every electronic component which is used in electrical circuits that require

