

Excellent Integrated System Limited

Stocking Distributor

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Wurth Electronics Inc 744777004

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



more than you expect

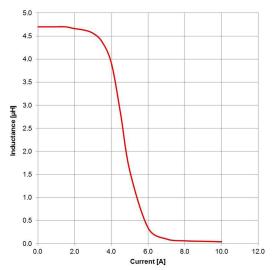
A Dimensions: [mm]	B Recommended land pattern: [mm]												
		Sc	older Resist				D Electric			WÜR			
				4 8	ά	Prope		Test conditions		Value	Unit	Tol.	
					•	Induc	tance	1 kHz/ 250 mV	L	4.7	μH	±20%	
50							Rated	current	∆T = 40 K	Ι _R	3.20	A	max.
							Saturatio	n current	I∆L/LI < 10%	Isat	4.00	A	typ.
	.Xe		no vias a	and trace	es in restricte	ed area	DC Res	istance	@ 20°C	R _{DC}	0.025	Ω	typ.
7,3 ±0,2	4,5 max.						DC Res	istance	@ 20°C	R _{DC}	0.040	Ω	max.
						Scale - 2:1	Self resonar	nt frequency		f _{res}	37	MHz	typ.
Marking	Scale - 2:1			γ	$\gamma\gamma$	<u> </u>	under worst •Ambient to •Operating •Storage to •Test cond	ended that case operai emperature: temperature imperature (itions of Elec ified differe	the temperature ting conditions. -40°C to +85°(e: -40°C to +129 (on tape & reel): ctrical Properties	C (refering 5°C -20°C to -	to I _R) +40°C; 75		
Component Marking						Projection		DESCRIPTION					
Component Marking:		5.6	2015-05-18	SSt	ALa								
Reference on drawing	Description	5.5	2014-06-16	SSt	SSt			WE-PD) SMD Shie	Ided P	ower l	nducto	or
•	Start of winding	5.4	2014-05-14	SSt	SSt	Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions							
Marking	4R7 (Inductance Code)	5.3	2014-01-09	SSt	SSt	Max-Eyth-Str. 1							
		5.2	2013-04-25	SSt	SSt	74638 Waldenburg Germany		Order No.				PLIANT	SIZE
		5.1	2013-02-20	SSt	ALa	Tel. +49 (0) 79 42 945 - 0		74477	7004	V	WÜRTH E	REACH	
		5.0	2006-09-07	PT	-	www.we-online.com eiSos@we-online.com		/44//	/004		and a second		A4
		REV	DATE	BY	CHECKED			Size: 7345					

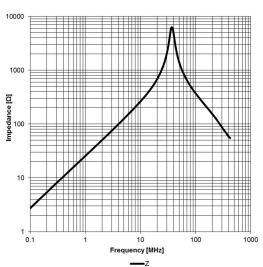
BY CHECKED This electronic component has been designed and developed for usage in general electronic explorment volv. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover With: Elektronik edss: fmH & Co KG products are neither designed not interded for use in aces such as millang, arrangaze, aviation, unarranger targeortation (automotive control, han control, harseportation signal, disaster prevention, medical, public information network etc. With: Elektronik eciss. SmH & Co KG must be informed about the interf of such usage before the design-in stage. In addition, stiffent effektion effektion





F1 Typical Inductance vs. Current Characteristics:





				Projection		DESCRIPTION		
5.6	2015-05-18	SSt	ALa					
5.5	2014-06-16	SSt	SSt			WE-PD SMD Sh	nielded Power Inductor	
5.4	2014-05-14	SSt	SSt	Würth Elektronik eiSos Gmbł	H & Co. KG			
5.3	2014-01-09	SSt	SSt	EMC & Inductive Solutions Max-Evth-Str. 1				
5.2	2013-04-25	SSt	SSt	74638 Waldenburg		Order No.	COMPLIANT	F
5.1	2013-02-20	SSt	ALa	Germany Tel. +49 (0) 79 42 945 - 0			ROHS&REACh	-
5.0	2006-09-07	PT	-	www.we-online.com eiSos@we-online.com		744777004	A4	
REV	DATE	BY	CHECKED	eisos@we-online.com		Size: 7345		_

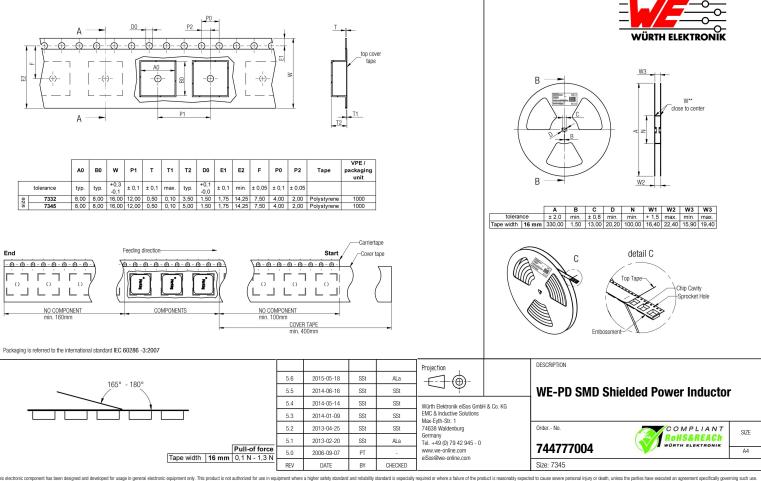
This electronic component has been designed and developed for usage in general electronic explanment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal rejury or death, unless the parties have executed an agreement specifically governing such use. Moreover With Electronic edsis GmHA & Da KE product are not intended for use in meas such as millary, averagoac, adution, nucleosity integration explanment where a higher safety standard and reliability standard is apportation signal, disaster prevention, medical, public information network etc. . With Electronic edsis GmHA & Da KE must be informed about the intent of such usage before the design-in signal, relations, additions, tradement and eliability intenders or performance.

F2 Typical Impedance Characteristics:



more than you expect





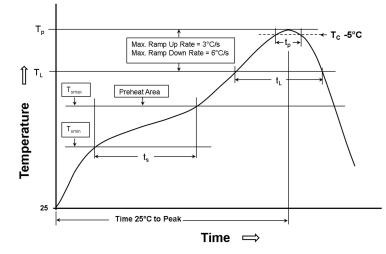
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially equipment on where a halfure of the product is reasonably expected to cause severe personal injury or destin, unlies the parties have executed an agreement specially governing such use. Moreover Will: Electronic eds: 6mH & Co XG products are notified dors are in the designed and a control, stansportation isginal, disaster prevention, medical, public information network etc... With Electronic Access Embed & Co XG must be informed a base to electrical crucits be internet of such usage before the design et al.g. or entitive, a hadfits, sufficient freeding et al.g. or entitive, and entitive information or entitive et al.g. With Electronic Access Embed & Co XG must be informed a base the internet of such usage before the design et al.g. or entitive, and an entitive information or entitive et al.g. and a control, transportation signal, disaster prevention, medical, public information network etc... With Electronic Access the matt be entitive and the standard or entitive and the standard or performance.



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				
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5.5	2014-06-16	SSt	SSt	$\Box \Psi$		WE-PD SMD Shi	elded Power Inductor			
5.4	2014-05-14	SSt	SSt	Würth Elektronik eiSos Gmbl	H & Co. KG					
5.3	2014-01-09	SSt	SSt	EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg						
5.2	2013-04-25	SSt	SSt			Order No.	COMPLIANT	SIZE		
5.1	2013-02-20	SSt	ALa	Germany Tel. +49 (0) 79 42 945 - 0			ROHS&REACH	ULL		
5.0	2006-09-07	PT	-	www.we-online.com eiSos@we-online.com		744777004		A4		
REV	DATE	BY	CHECKED	elous@we-online.com		Size: 7345				

This electronic component has been designed and developed for usage in general electronic equipment only. This product is nearonably expected by standard and reliable states states

I Cautions and Warnings:

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

waranty. • 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					
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5.4	2014-05-14	SSt	SSt	Würth Elektronik eiSos Gmbł	H & Co. KG						
5.3	2014-01-09	SSt	SSt	EMC & Inductive Solutions Max-Evth-Str. 1							
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5.1	2013-02-20	SSt	ALa	Germany Tel. +49 (0) 79 42 945 - 0		744777004	ROHS&REACH	OLL			
5.0	2006-09-07	PT	-	www.we-online.com eiSos@we-online.com		744777004		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 standard is especially required or where a laive 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 Electronic edsp. Employed Sin Use 2. Sin Comparison and the standard and reliability standard is especially required or where a laive 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 Electronic edsp. Employed Sin Use 2. Sin Use 2.



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		
5.6	2015-05-18	SSt	ALa	-E-1-@-				
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5.0	2006-09-07	PT	-	www.we-online.com eiSos@we-online.com		744777004	· · · · · · · · · · · · · · · · · · ·	A4
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