

Excellent Integrated System Limited

Stocking Distributor

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

Wurth Electronics Inc 7447745220

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 7447745220 - FIXED IND 22UH 1.05A 330 MOHM

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A Dimensions: [mm]		B Rec	ommende	d land	pattern:	[mm]			=	_//-	C	≻
		Solder	Resist	5,5 n	ef.	2.15 ref. 6.0 ref.	D Electrical			ÜRTH EL	EKTRONI e Unit	K
2.0 ref							Inductance	e 100 kHz/ 1	mA L	. 22	μH	±20%
2,0 101						T	Rated curre	ent $\Delta T = 40$	K I	R 1.05	A	max.
					///////////////////////////////////////		Saturation cur	rrent ∆L/L < 1)% I _S	at 1.2	A	typ.
				1		f	DC Resistan		L			typ.
5,8 ±0,3							DC Resistan		R			max.
						Scale - 5:1	Self resonant fre	quency	fre	es 24	MHz	typ.
Marking Cor Zg	Scale - 5:1			γ	$\gamma\gamma$	<u></u>	under worst cass Ambient temper Operating temper Storage tempera Test conditions (if not specified	ed that the temper e operating conditi rature: -40°C to +4 erature: -40°C to - ature (on tape & re of Electrical Proper d differently	ns. 5°C (refer 125°C I): -20°C ⁻	ing to I _R) to +40°C; ⁻		
						Projection	DES	SCRIPTION				
Reference on drawing	Description					-€- † ⊕-	1.1	/E-PD2 SMD	Dower	Induct	or	
•	Start of winding							12-PDZ 3110	rower	muuct	U	
Marking	200 (Inductance Code)	3.3	2014-06-23	SSt	SSt	Würth Elektronik eiSos Gmbl EMC & Inductive Solutions	H & Co. KG					
		3.2	2014-00-23	SSt	SSt	Max-Eyth-Str. 1 74638 Waldenburg	Ord	ler No.	N.		MPLIAN	τ
		3.1	2013-04-18	SSt	ALa	Germany			C	A Rol	IS&REAC	51ZE
		3.0	2009-06-26	ME	-	Tel. +49 (0) 79 42 945 - 0 www.we-online.com	74	447745220	0	WÜR1	H ELEKTRONI	A4
		REV	DATE	BY	CHECKED	eiSos@we-online.com	Siz	re: 5820				
This electronic commonent has been designed and developed for usage in	general electronic equipment only. This product is not authorized for use in e	uinment where	a higher cafety standard	and reliability et	tandard ie gengejallw	required or where a failure of the oro	duct is reasonably expected to ca	ause severe nersonal inium or dea	unlace the partie	e have executed an	urreement coecifically	aqueroing such use

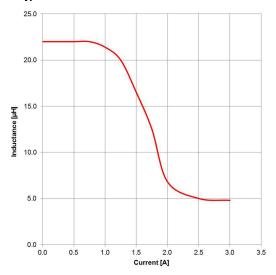
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a lailure of the product is reasonably expected to cause severe personal injury or death, unlies the parties have executed an agreement specifically governing such use. Moreover Will: Electronic eSSs Enrich & D. KS products are netitive dissipant agreement approaches is prevailed and reliability standard is approximately expected to cause severe personal injury or death, unlies the parties have executed an agreement specifically governing such use. Moreover Will: Electronic eSSs Enrich & D. KS products is not authorized for use in required in standard and reliability standard index or parties in the adjust on stand. In addition, standard reliability estandard on test or staff, stats for enrich reliability estandard on test is staff, estafficient test is readine, statistic methodistic entities on test and the parties in the adjust in t



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F1 Typical Inductance vs. Current Characteristics:

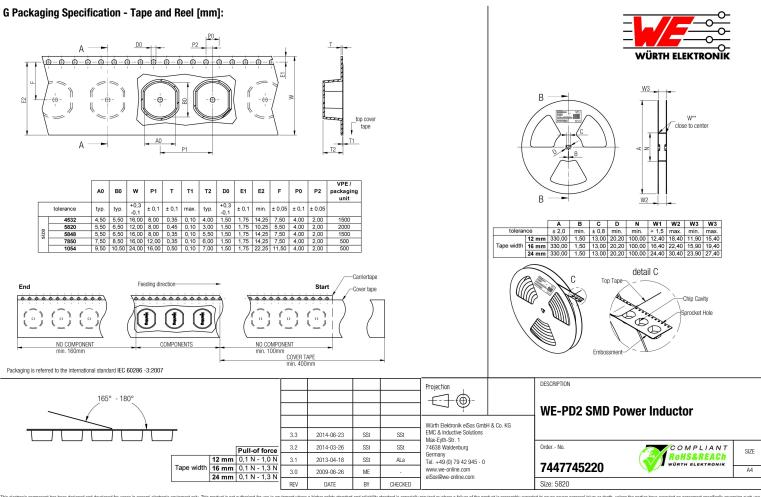


				Projection		DESCRIPTION WE-PD2 SMD P	ower Inductor				
3.3	2014-06-23	SSt	SSt	Würth Elektronik eiSos GmbH EMC & Inductive Solutions	1 & Co. KG						
3.2	2014-03-26	SSt	SSt	Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE			
3.1	2013-04-18	SSt	ALa	Germany Tel. +49 (0) 79 42 945 - 0			ROHS&REACH	SIZE			
3.0	2009-06-26	ME	-	www.we-online.com eiSos@we-online.com		7447745220		A4			
REV	DATE	BY	CHECKED	elousewe-unime.cum		Size: 5820					

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 lailure of the product is reasonably expected to cause severe personal injury or death, unlies the parties have executed an agreement specifically governing such use. Moreover Will Electronic eSis GenH & Da KS products are netlined dor use in meas such as millitary, arrespace, additon, nucleost instance in the daily endition of the daily endition of the daily endited on the daily endited on the daily endited on the set of the product is reasonably expected to cause severe personal injury or death, unlies the parties have executed an agreement specifically governing such use. He daily in station is addition addition table to the trade of the parties have executed an agreement specifically governing such use before the daigy in stage. In addition, addition table to the trade of the product is reasonably expected to cause severe personal injury or death, unlies the parties have executed an agreement specifically governing such use. He daigy in stage, in addition, addition table to the trade of the parties that requer ting stating is and reliable platice or performance.



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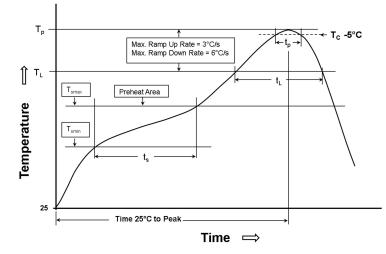
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially equired or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover With Elektronik edsis Simble & D. KG products is not authorized for use in equipment where a higher safety standard and reliability standard is sepacially equired 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 edsis Simble & D. KG products is not authorized for use in equipment where a higher safety standard is approximate, station station affective factorial specifically equivation where a higher safety executed is approximate state an effective executed and agreement specifically governing such use. With Elektronik edsis in tables, the factor indigent where a higher safety and reliability functions signal, disaster prevention, medical, public information network etc... With the dispiring stage, and and the safety and reliability functions of performance.



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-PD2 SMD PC	ower Inductor				
3.3	2014-06-23	SSt	SSt	Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg							
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3.0	2009-06-26	ME	-	www.we-online.com eiSos@we-online.com		7447745220		A4			
REV	DATE	BY	CHECKED	elous@we-unime.com		Size: 5820					

This electronic component has been designed and belonged for usage in general electronic equipment only. This product is not authorized for use in expertant specifically openning such usa. Moreover Wint Elektronic Alsos Enthel & Co KG products are nither designed nor intended for use in exercated as a millary, assospace, aviation, nuclear control, shin control, ship control, transportation signal, disaster prevention, medical, public information network etc... Winth Elektronic Alsos Enthel & Co KG must be informed about the intent of such usage before the design-in stage, in addition, sufficient reliability reliability in clears or aviation of a review electrical circuits that require high stage and reliability intended on a reliability and and in electrical circuits and the design of a stage method in electrical circuits and the design of a stage method. So Enthel & Co KG must be informed about the intent of such usage before the design-in stage in general circuits and the intent of a such usage to a method and reliability intentions or performance.

I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-PD2 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 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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3.2	2014-03-26	SSt	SSt	Max-Eyth-Str. 1 74638 Waldenburg		Order No.	COMPLIANT	SIZE
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3.0	2009-06-26	ME	-	www.we-online.com eiSos@we-online.com		7447745220		A4
REV	DATE	BY	CHECKED	elousiewe-online.com		Size: 5820		

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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.

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3.0	2009-06-26	ME	-	www.we-online.com eiSos@we-online.com		7447745220		A4
REV	DATE	BY	CHECKED	eisos@we-online.com		Size: 5820		

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