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Wurth Electronics Inc 784775133

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



Datasheet of 784775133 - FIXED IND 33UH 1.35A 130 MOHM

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A Dimensions: [mm]







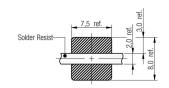




Scale - 2:1

Reference on drawing	Description				
•	Start of winding				
Marking	330 (Inductance Code)				

B Recommended land pattern: [mm]



no vias and traces in restricted area

Scale - 2:1

D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	10 KHz/ 100 mV	L	33	μН	±10%
Rated Current	$\Delta T = 40 \text{ K}$	I _R	1.35	Α	max.
Saturation Current	IΔL/LI < 10%	I _{sat}	1.47	Α	typ.
DC Resistance	@ 20°C	R _{DC}	0.130	Ω	max.
DC Resistance	@ 20°C	R _{DC}	0.088	Ω	typ.
Self Resonant Freq.	@ 20°C	f _{res}	13	MHz	typ.
Rated Voltage	@ 20°C	U_{R}	80	V_{DC}	max.

C Schematic:



E General information:

It is recommended that the temperature of the part does not exceed 125°C un-It is recommended that the temperature of the part does not exceed 12st der worst case operating conditions.

Ambient temperature: -40°C to +85°C (refering to I_R)

Operating temperature: -40°C to +125°C

Storage temperature (on tape & reel): -20°C to +40°C; 75% RH max.

Coplanarity of the terminal pads: 120µm

Test conditions of Electrical Properties: 20°C, 33% RH

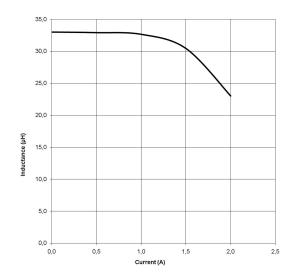
- •AEC-Q 200 qualified

				Projection		DESCRIPTION		
2.3	2015-01-07	SSt	BMoe					
2.2	2014-05-19	SSt	BMoe			WE-PD2A SMD	Power Inductor	
2.1	2014-03-12	SSt	BMoe	Würth Elektronik eiSos Gmbi	H & Co. KG			
2.0	2014-02-03	SSt	BMoe	EMC & Inductive Solutions Max-Evth-Str. 1				
1.7	2013-12-05	SSt	BMoe	74638 Waldenburg		Order No.	COMPLIANT	SIZE
1.6	2013-10-10	SSt	BMoe	Germany Tel. +49 (0) 79 42 945 - 0		-04400	ROHS&REACH HALOGENEREE	OILL
1.5	2013-04-10	SSt	SSt	www.we-online.com eiSos@we-online.com		784775133	2 III LOGENT TILL	A4
REV	DATE	BY	CHECKED	elous@we-utilite.cutil		Size: 7850		

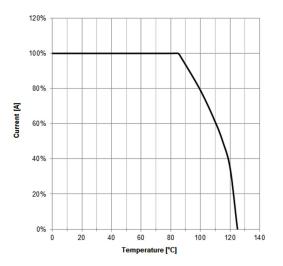
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F1 Typical Inductance vs. Current Characteristics:



F2 Derating Curve:



				Projection		DESCRIPTION		
2.3	2015-01-07	SSt	BMoe					
2.2	2014-05-19	SSt	BMoe	9		WE-PD2A SMD	Power Inductor	
2.1	2014-03-12	SSt	BMoe	Würth Elektronik eiSos Gmbl	H & Co. KG			
2.0	2014-02-03	SSt	BMoe	EMC & Inductive Solutions Max-Eyth-Str. 1				
1.7	2013-12-05	SSt	BMoe	74638 Waldenburg		Order No.	COMPLIANT	SIZE
1.6	2013-10-10	SSt	BMoe	Germany Tel. +49 (0) 79 42 945 - 0		-04400	ROHS&REACH HALOGENEREE	OLL
1.5	2013-04-10	SSt	SSt	www.we-online.com eiSos@we-online.com		784775133	2 III LEGGENTIEL	A4
REV	DATE	BY	CHECKED	elous@we-utilite.com		Size: 7850		

is 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 experted 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. Noreover Wirth Elektronic RSQs Gmith & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, showarine, transportation (authorostive control, transportation signal, disaster prevention, medical, public information network etc. Wirth Elektronic RSQs Gmith & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circults that require high safety and reliability functions or performance.

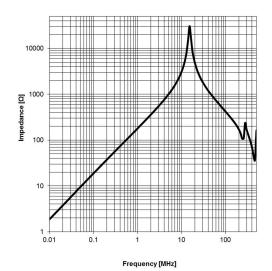




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F3 Typical Impedance Characteristics:



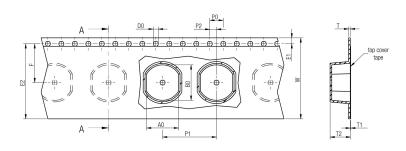
				Projection		DESCRIPTION		
2.3	2015-01-07	SSt	BMoe					
2.2	2014-05-19	SSt	BMoe			WE-PD2A SMD	Power Inductor	
2.1	2014-03-12	SSt	BMoe	Würth Elektronik eiSos Gmbi	H & Co. KG			
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1.5	2013-04-10	SSt	SSt	www.we-online.com eiSos@we-online.com		784775133	2 IEG GENT TIEE	A4
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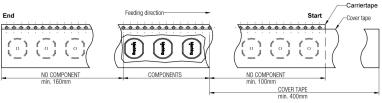


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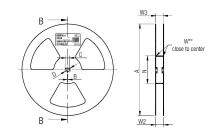


		A0	В0	w	P1	т	T1	T2	D0	E1	E2	F	P0	P2	VPE / packaging unit
	tolerance	typ.	typ.	+0,3	± 0,1	± 0,1	max.	typ.	+0,3	± 0,1	min.	± 0,05	± 0,1	± 0,05	
	4532	4,50	5,50	16,00	8,00	0,25	0,10	4,00	1,50	1,75	14,25	7,50	4,00	2,00	1500
ze	5848	5,50	6,50	16,00	8,00	0,25	0,10	5,50	1,50	1,75	14,25	7,50	4,00	2,00	1500
.8	7850	7,50	8,50	16,00	12,00	0,25	0,10	6,00	1,50	1,75	14,25	7,50	4,00	2,00	500
	1054	9.50	10.50	24.00	16.00	0.50	0.10	7.00	1.50	1.75	22.25	11.50	4.00	2.00	500

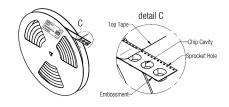


Packaging is referred to the international standard IEC 60286 -3:2007





			Α	В	¢	D	N	W1	W2	W3	W3
Г	tolerar					min.					
		16 mm									
1"		24 mm	330,00	1,50	13,00	20,20	100,00	24,40	30,40	23,90	27,40



					Projection .
165° - 180°	2.3	2015-01-07	SSt	BMoe	£-1
100 100	2.2	2014-05-19	SSt	BMoe	7
	2.1	2014-03-12	SSt	BMoe	Würth Elektronik eiSos
	2.0	2014-02-03	SSt	BMoe	EMC & Inductive Solution Max-Eyth-Str. 1
	1.7	2013-12-05	SSt	BMoe	74638 Waldenburg
Pull-of force	1.6	2013-10-10	SSt	BMoe	Germany Tel. +49 (0) 79 42 945
Tape width 16 mm 0,1 N - 1,3 N 24 mm 0,1 N - 1,3 N	1.5	2013-04-10	SSt	SSt	www.we-online.com eiSos@we-online.com
24 11111 0,1 14 - 1,3 14					elous@we-urillile.cum

onik eiSos GmbH & Co. KG tive Solutions : 1 . I enburg Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com

WE-PD2A SMD Power Inductor

Order - No

DESCRIPTION

COMPLIANT ROHS&REACH HALOGENFREE 784775133

SIZE

Size: 7850



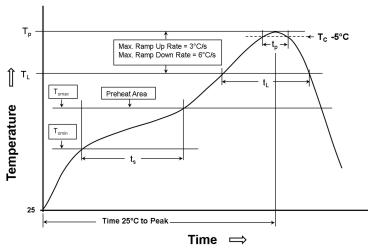
Datasheet of 784775133 - FIXED IND 33UH 1.35A 130 MOHM

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H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly	Sn-Pb 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	100°C 150°C 60-120 seconds
Ramp-up rate (T _L to T _P)	3°C/ second max.	3°C/ second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217°C 60-150 seconds	183°C 60-150 seconds
Peak package body temperature (Tp)	See Table H3	See table H3
Time within 5°C of actual peak temperature (tp)	30 seconds	20 seconds
Ramp-down rate (T _P to T _L)	6°C/ second max.	6°C/ second max.
Time 25°C to peak temperature	8 minutes max.	6 minutes max.

refer to IPC/JEDEC J-STD-020D

H3: Package Classification Reflow Temperature

	Package Thickness	Volume mm³ <350	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
Sn-Pb Assembly	< 2.5 mm	235°C	220°C		
Sn-Pb Assembly	≥ 2.5 mm	220°C	220°C		

				Projection		DESCRIPTION					
2.3	2015-01-07	SSt	BMoe								
2.2	2014-05-19	SSt	BMoe			WE-PD2A SMD	Power Inductor				
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1.7	2013-12-05	SSt	BMoe	74638 Waldenburg		Order No.	COMPLIANT	SIZE			
1.6	2013-10-10	SSt	BMoe	Germany Tel. +49 (0) 79 42 945 - 0		-04400	ROHS&REACH HALOGENFREE	OILL			
1.5	2013-04-10	SSt	SSt	www.we-online.com eiSos@we-online.com		784775133	I TIALOGEN TILL	A4			
REV	DATE	BY	CHECKED	elous@we-unline.com		Size: 7850					

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.

Moreoner Wilton Electronic eSics Smith & Co KG products are neither designed nor intended for use in a reason such as millarlay, averageae, acidation, unless of the product is reasonable upperbation signal, disaster prevention, medical, public information network etc.. With Electronic eSics Gmith & Co KG must be informed about the intent of such usage before the design-in-a state in a deathfor in sofficion edition is expected intention. In a section of the product is reasonable upperbation in a section of the product is reasonable upperbation in a section of the product is reasonable upperbation or intention of the parties of the product is reasonable upperbation. In a section of the product is reasonable upperbation or intention of the product is reasonable upperbation. In a section of the product is reasonable upperbation or intention of the product is not authorized in a section of the product is not authorized or intention of the product is not authorized or intention



Datasheet of 784775133 - FIXED IND 33UH 1.35A 130 MOHM

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I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-PD2A of Würth Elektronik eiSos GmbH & Co. KG:

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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 costumer 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.

Washing varnish agent that is used during the production to clean the customer application might damage or change the characteristics of the wire insulation, the marking or the plating. The washing varnish agent could have a negative effect on the long term function of the product.

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.
- •Solvents may influence the product marking.

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		
2.3	2015-01-07	SSt	BMoe	- -1				
2.2	2014-05-19	SSt	BMoe			WE-PD2A SMD	Power Inductor	
2.1	2014-03-12	SSt	BMoe	Würth Elektronik eiSos Gmbi	H & Co. KG			
2.0	2014-02-03	SSt	BMoe	EMC & Inductive Solutions Max-Evth-Str. 1				
1.7	2013-12-05	SSt	BMoe	74638 Waldenburg		Order No.	COMPLIANT	SIZE
1.6	2013-10-10	SSt	BMoe	Germany Tel. +49 (0) 79 42 945 - 0		-04400	ROHS&REACH HALOGENEREE	O.L.
1.5	2013-04-10	SSt	SSt	www.we-online.com eiSos@we-online.com		784775133	2 III LEGGENT TEE	A4
REV	DATE	BY	CHECKED	elous@we-urillite.cutti		Size: 7850		

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 Wilm Elektronic Resides Genirid & Co Kit or products are neither designed and on the control, transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Resides Genitad & Co Kit or use to effect and on the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Resides Genitad & Co Kit or use to effect and on the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Resides Genitad & Co Kit or use to effect and on the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Resides Genitad & Co Kit or use to effect and on the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Resides of the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Residence of the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Residence of the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Residence of the control transportation signal, disaster prevention, medical, public information network etc., Wilm Elektronic Residence of the control transportation signal, disaster prevention, medical public residence of the control transportation signal, disaster prevention, medical public residence of the control transportation of the control transportation of the control transportation





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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		
2.3	2015-01-07	SSt	BMoe					
2.2	2014-05-19	SSt	BMoe			WE-PD2A SMD Power Inductor		
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REV	DATE	BY	CHECKED	CIGUS GWC-UTIIITC.CUTT		Size: 7850		

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