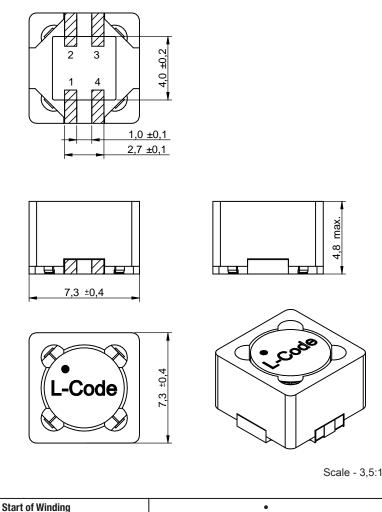
Dimensions: [mm]



L-Code (Inductance) W8R2 (Inductance code)

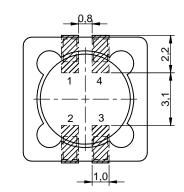
Recommended Land Pattern: [mm]

Schematic:

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RoHS COMPLIANT

REACH



		-			
Properties		Test conditions	Value	Unit	Tol.
Inductance 1	L ₁	1 kHz/ 250 mV	8.2	μH	±20%
Inductance 2	L ₂	1 kHz/ 250 mV	8.2	μH	±20%
Rated Current 1	I _{R 1}	$\Delta T = 40 \text{ K}$	1.7	A	max.
Rated Current 2	I _{R 2}	$\Delta T = 40 \text{ K}$	1.7	A	max.
Saturation Current	I _{SAT}	ΔL/L < 10 %	2.9	A	typ.
DC Resistance 1	R _{DC1}	@ 20 °C	0.091	Ω Ω	typ. max.
DC Resistance 1	R _{DC1}	@ 20 °C	0.11		
DC Resistance 2	R _{DC2}	@ 20 °C	0.091	Ω	typ.
DC Resistance 2	R _{DC2}	@ 20 °C	0.11	Ω	max.
Self Resonant Frequency	f _{res}		17	MHz	typ.
Operating Voltage	V		80	V (DC)	max.
Turns Ratio	n		1:1		

Scale - 3:1 Turns Ratio

2 (1)(2)3

General Properties:

Electrical Properties:

It is recommended that the temperature of the component does not exceed +125 °C under worst case conditions						
Ambient Temperature (referring to ${\rm I}_{\rm R})$	-40 up to +85 °C					
Operating Temperature	-40 up to +125 °C					
Storage Conditions (in original packaging)	< 40 °C;< 75 % RH					
Moisture Sensitivity Level (MSL)	1					

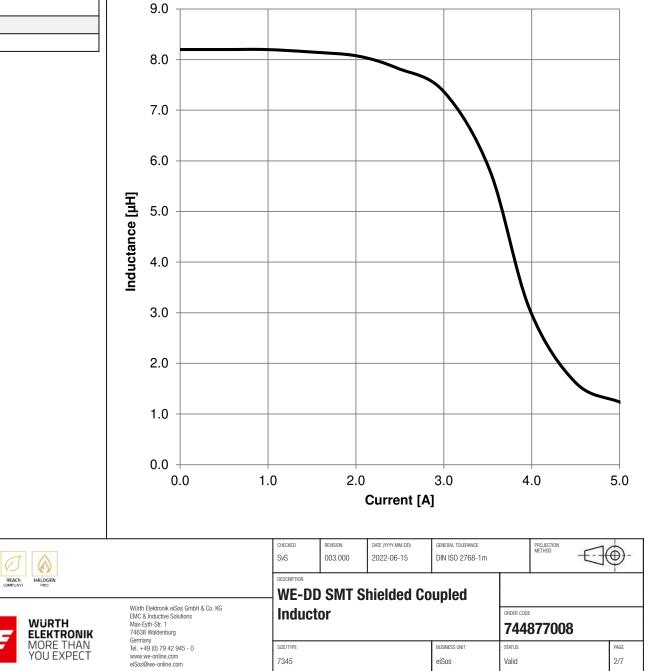
HALOGEN		CHECKED REVISION DATE (YYY+MM-DD) GENERAL TOLERANCE SVS 003.000 2022-06-15 DIN ISO 2768-1m					PROJECTION METHOD	-	- -	
		DESCRIPTION	SMT S	hielded Co						
WURTH ELEKTRONIK	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany	Inductor					ORDER CODE 744877008			
MORE THAN YOU EXPECT	N Tel. +49 (0) 79 42 945 - 0		szeriye 7345			status Valid			page 1/7	

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 and rel

Certification:

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACh Approval	Conform or declared [(EC)1907/2006]
Halogen Free	Conform [JEDEC JS709B]

Typical Inductance vs. Current Characteristics:

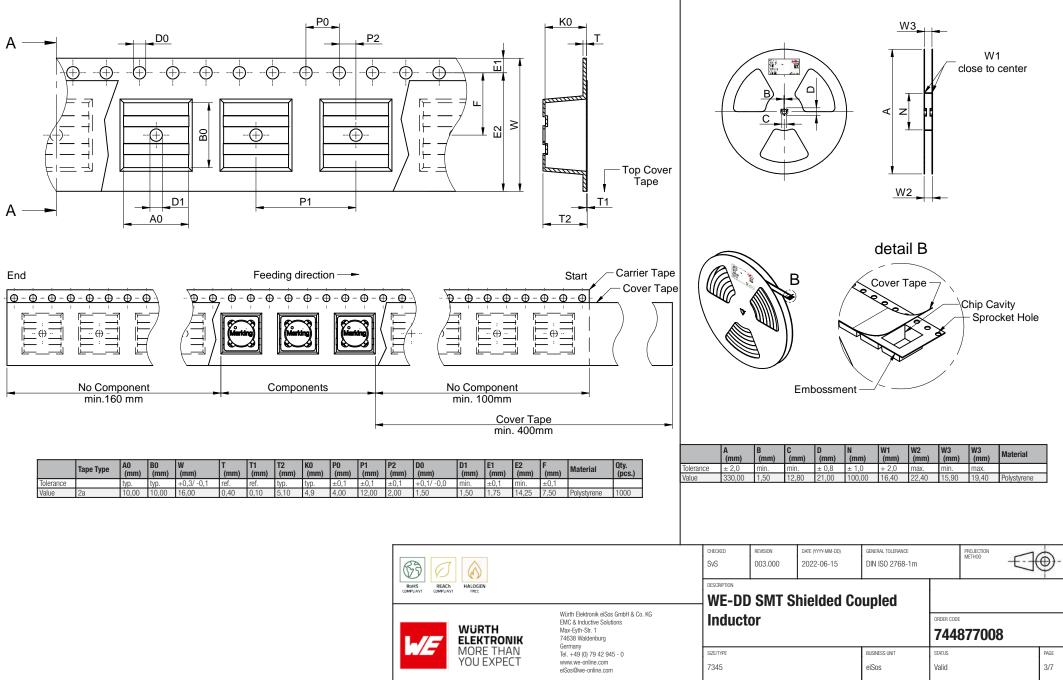


This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard and rel

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RoHS COMPLIANT

Packaging Specification - Tape and Reel: [mm]



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 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 Wurth Elektronik elSos GmbH & Co KG must be informed on every electronic component which is used in efficially governing such use, interview of use as even executed an agreement specifically governing such use. Moreover Wurth Elektronik elSos GmbH & Co KG must be information interview of acus severe personal injury or death, unless the parties have executed an agreement specifically governing such use, interview of its standard in entry or death, unless the parties have executed an agreement specifically governing such use, Moreover Wurth Elektronik elSos GmbH & Co KG must be information interview of acus severe personal injury or death, unless the parties have executed an agreement specifically governing such use, interview of its standard and reliability functions or performance.

L _C (mm) W _C (mm) H _C (mm) Tolerance typ. typ.	No. of Qty. Reel (pcs.) (pcs.)	Material						
Toterance typ. typ. typ. typ. Value 355,00 355,00 225,00	8 8000	Paper						
			CHECKED SVS	REVISION 003.000	DATE (YYYY-MM-DD) 2022-06-15	GENERAL TOLERANCE DIN ISO 2768-1 m	PROJECTION METHOD	
	RoHS REACH HALOGEN	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions MURTH Max-Eurl-Str.	DESCRIPTION	D SMT S	Shielded C	oupled		
			Induc				ORDER CODE	08
	MORE THAN YOU EXPECT	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com elSos@we-online.com	size/type 7345			BUSINESS UNIT eiSos	status Valid	PAGE 4/7
This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipm & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automo must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.	Lent where a higher safety standard and reliability standard is especially tive control, train control, ship control), transportation signal, disaster pr		cted to cause severe persor ektronik eiSos GmbH & Co H	nal injury or death, u KG must be informed	nless the parties have exe I about the intent of such	cuted an agreement specifically usage before the design-in stag	governing such use. More e. In addition, sufficient reli	over Würth Elektronik eiSos GmbH iability evaluation checks for safety

Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min	T _{s min}	150 °C
Preheat Temperature Max	T _{s max}	200 °C
Preheat Time $\rm t_s$ from $\rm T_{smin}$ to $\rm T_{smax}$	t _s	60 - 120 seconds
Ramp-up Rate (T _L to T _P)		3 °C/ second max.
Liquidous Temperature	TL	217 °C
Time t_L maintained above T_L	tL	60 - 150 seconds
Peak package body temperature	Т _р	$T_p \le T_c$, see Table below
Time within 5°C of actual peak temperature	t p	20 - 30 seconds
Ramp-down Rate (T _P to T _L)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature (T_c):

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly I Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly I Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly I Package Thickness > 2.5 mm	250 °C	245 °C	245 °C

refer to IPC/ JEDEC J-STD-020E

	Reids REACT REACT RALDGEN Reids REACT REACT REACT WURTH BUILTH REACT REACT WURTH ELEKTRONIK Würth Elektronik elSos GmbH & Co. KG Max-Eyh-Str. 1 74638 Waldenburg		CHECKED SVS	REVISION 003.000	DATE (YYYY-MM-DD) 2022-06-15	general tolerance DIN ISO 2768-1m	_	PROJECTION METHOD	\Box	⊕ -
				WE-DD SMT Shielded Coupled						
			Induct	or		-	ORDER CODE	877008	8	
	MORE TH YOU EXP		size/type 7345			BUSINESS UNIT eiSos	status Valid		1	page 5/7

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 and rel

Cautions and Warnings:

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

General:

The usage and operation of the product within ambient conditions, which probably alloy or harm the wire isolation, has to be avoided.

f 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 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.

		CHECKED SVS	REVISION 003.000	DATE (YYYY-MM-DD) 2022-06-15	GENERAL TOLERANCE DIN ISO 2768-1 m		PROJECTION METHOD	-	- -
ROHS REACH HALOGEN			WE-DD SMT Shielded Coupled						
ELEKTRONIK			or			ORDER CODE	877008		
MORE THAN YOU EXPECT	Tel 49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 7345			BUSINESS UNIT eiSos	status Valid		1	page 6/7

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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 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 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 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.

		CHECKED SVS	REVISION 003.000	DATE (YYYY-MM-DD) 2022-06-15	GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD		€-	
	PUNAT COMPLANT TREE		WE-DD SMT Shielded Coupled							
Würth Elektronik elSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Sr. 1 ELEKTRONIK 74638 Waldenburg			Induct	or			ORDER CODE	877008		
	DRE THAN U EXPECT	Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com	size/type 7345			BUSINESS UNIT eiSos	status Valid		1	page 7/7

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