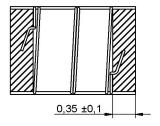
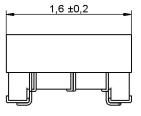
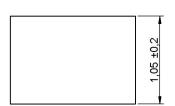
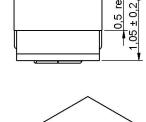
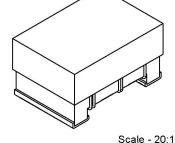
# A Dimensions: [mm]



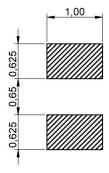








B Recommended land pattern: [mm]



Scale - 15:1



### **D Electrical Properties:**

Properties	Test conditions		Value	Unit	Tol.
Inductance	250 MHz	L	3.3	nH	±0.2nH
Q-factor	250 MHz	Q	22		min.
Q-factor	900 MHz	Q	63		typ.
DC Resistance	@ 20°C	R <sub>DC</sub>	0.06	Ω	max.
Rated current	∆T = 15 K	I <sub>R</sub>	700	mA	max.
Self resonant frequency		f <sub>res</sub>	5800	MHz	min.

# E General information:

It is recommended that the temperature of the part does not exceed 125°C under worst case operating conditions.

- •Ambient temperature: -40°C to +110°C (refering to I<sub>R</sub>)
- •Operating temperature: -40°C to +125°C
- $\bullet Storage \ temperature \ (on tape \& reel): -10°C \ to +40°C; 30 \ to 70% \ RH \ max.$
- •Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently

2.4	2016-06-20	KaS	HBH
2.3	2016-02-04	KaS	НВН
2.2	2015-07-15	SSt	НВН
2.1	2014-09-15	SSt	НВН
2.0	2014-04-09	SSt	HBH
1.0	2004-10-11	AWe	-
RFV	DATE	BY	CHECKED



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EMC & Inductive Solutions
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Germany
Tel. +49 (0) 79 42 945 - 0
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eiSos@we-online.com

DESCRIPTION

# **WE-KI SMD Wire Wound Ceramic Inductor**

Order.- No.

Size: 0603A

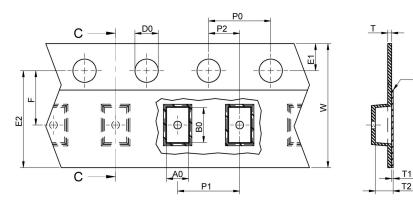
744761033A



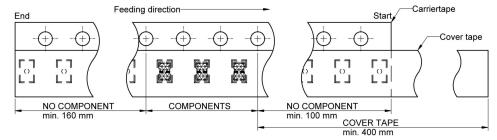
SIZE A4

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

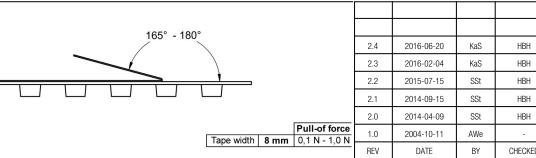
# **G Packaging Specification - Tape and Reel [mm]:**



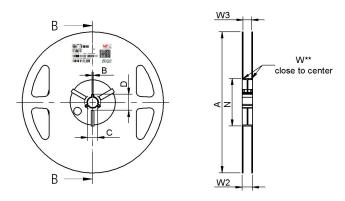
		Α0	В0	w	P1	T	T1	T2	D0	E1	E2	F	P0	P2	Таре	Packaging Unit
	tolerance	typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,1 -0,0	± 0,1	min.	± 0,05	± 0,1	± 0,05		
	0402A	0,70	1,20	8,00	2,00	0,22	0,10	0,70	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	3000
	0603A	1,35	1,90	8,00	4,00	0,28	0,10	1,15	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	3000
	0603C	1,16	1,90	8,00	4,00	0,22	0,10	0,95	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	3000
e la	0805A	1,42	2,26	8,00	4,00	0,23	0,10	1,30	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	2000
siz	0805C	1,82	2,40	8,00	4,00	0,22	0,10	1,50	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	3000
	1008A	2,20	2,83	8,00	4,00	0,22	0,10	1,75	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	2000
	1210A	2,69	3,56	8,00	4,00	0,20	0,10	2,40	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	2000



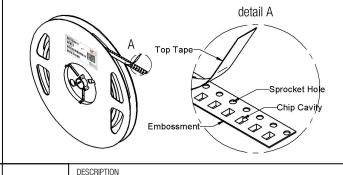
Packaging is referred to the international standard IEC 60286 -3:2007







		Α	В	С	D	N	W1	W2	WЗ	W3
tolerance	Ф	± 2,0	min.	± 0,8	min.	min.	+ 1,5	max.	min.	max.
Tape width 8	8 mm	178,00	1,50	13,00	20,20	50,00	8,40	14,40	7,90	10,90





# **WE-KI SMD Wire Wound Ceramic Inductor**

Order.- No.

744761033A



SIZE

A4

Size: 0603A

CHECKED This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment only. This product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, strip control), transportation (automotive control, train control, strip control), transportation (automotive control, train control, strip control), transportation (automotive control, train control, trai the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

Projection

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Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions

top cover tape

### **H Soldering Specifications:**



## **H1: Classification Reflow Profile for SMT components:**



### **H2: Classification Reflow Profiles**

Profile Feature	Pb-Free Assembly	
Preheat - Temperature Min (T <sub>Smin</sub> ) - Temperature Max (T <sub>Smax</sub> ) - Time (t <sub>S</sub> ) from (T <sub>Smin</sub> to T <sub>Smax</sub> )	150°C 200°C 60-120 seconds	
Ramp-up rate (T <sub>L</sub> to T <sub>P</sub> )	3°C/ second max.	
Liquidous temperature (T <sub>L</sub> ) Time (t <sub>L</sub> ) maintained above T <sub>L</sub>	217°C 60-150 seconds	
Peak package body temperature (Tp)	See Table H3	
Time within 5°C of actual peak temperature (tp)	20-30 seconds	
Ramp-down rate (T <sub>P</sub> to T <sub>L</sub> )	6°C/ second max.	
Time 25°C to peak temperature	8 minutes max.	

refer to IPC/JEDEC J-STD-020D

### **H3: Package Classification Reflow Temperature**

	Package Thickness	Volume mm³ <350	Volume mm³ 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

refer to IPC/JEDEC J-STD-020D

				Projection		DESCRIPTION		
2.4	2016-06-20	KaS	НВН			WE-KI SMD Wire Wound Ceramic Inducto		uctor
2.3	2016-02-04	KaS	HBH	Würth Elektronik eiSos Gmbl	H & Co. KG			
2.2	2015-07-15	SSt	HBH	EMC & Inductive Solutions Max-Eyth-Str. 1				
2.1	2014-09-15	SSt	HBH	74638 Waldenburg		Order No.	COMPLIANT	SIZE
2.0	2014-04-09	SSt	HBH	Germany Tel. +49 (0) 79 42 945 - 0		<b>=</b> 44 <b>=</b> 040004	ROHS&REACH	OIZL
1.0	2004-10-11	AWe	-	www.we-online.com eiSos@we-online.com		744761033A ***********************************		A4
REV	DATE	BY	CHECKED	eloos@we-online.com		Size: 0603A	•	

### **I Cautions and Warnings:**

# The following conditions apply to all goods within the product series of WE-KI 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.



Projecti				
1	HBH	KaS	2016-06-20	2.4
Würth E	HBH	KaS	2016-02-04	2.3
EMC & I Max-Eyt	HBH	SSt	2015-07-15	2.2
74638 V	HBH	SSt	2014-09-15	2.1
Germany Tel. +49	HBH	SSt	2014-04-09	2.0
www.we	-	AWe	2004-10-11	1.0
0.003@1	CHECKED	BY	DATE	REV

Projection

Vürth Elektronik eiSos GmbH & Co. KG MC & Inductive Solutions flax-Eyth-Str. 1 4638 Waldenburg ermany el. +49 (0) 79 42 945 - 0 www.we-online.com iSos@we-online.com DESCRIPTION

### **WE-KI SMD Wire Wound Ceramic Inductor**

Order.- No.

Size: 0603A

744761033A

COMPLIANT ROHS&REACH WÜRTH ELEKTRONIK

SIZE A4

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

### **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 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 gueries 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 Flektronik 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				
1				
	HBH	KaS	2016-06-20	2.4
Würth Elektro	HBH	KaS	2016-02-04	2.3
EMC & Induc Max-Eyth-Str	HBH	SSt	2015-07-15	2.2
74638 Walde	HBH	SSt	2014-09-15	2.1
Germany Tel. +49 (0)	HBH	SSt	2014-04-09	2.0
www.we-onli eiSos@we-o	-	AWe	2004-10-11	1.0
- 01003@W6-0	CHECKED	BY	DATE	REV



ronik eiSos GmbH & Co. KG ctive Solutions tr. 1 denbura 79 42 945 - 0 line com online.com

DESCRIPTION

**WE-KI SMD Wire Wound Ceramic Inductor** 

Order.- No.

Size: 0603A

744761033A



SIZE Α4

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