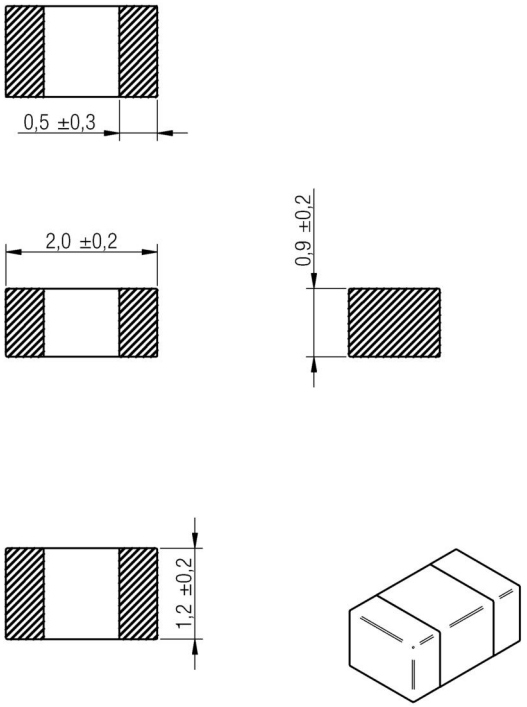
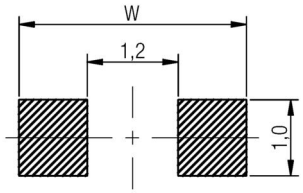
A Dimensions: [mm]



Scale - 10:1

B Recommended land pattern: [mm]



WIDE BAND / HIGH SPEED: W = 3,0
HIGH CURRENT: W = 4,0

Scale - 10:1

C Schematic:



D Properties:

Properties	Test conditions		Value	Unit	Tol.
Impedance	100 MHz	Z	91	Ω	±25%
Maximum Impedance	400 MHz	Z	105	Ω	typ.
Rated Current	ΔT = 40K	I_R	2000	mA	max.
DC Resistance	@ 20°C	R_{DC}	0.06	Ω	max.
Type			High Current		

E General information:

Do not use this part beyond the Rated Current, as this will create excessive heat and can harm the component

- Ambient temperature: -55°C to +85°C/ +105°C (refering to I_R)
- Operating temperature: -55°C to +125°C
- Storage temperature (on tape & reel): -20°C to +40°C; 75% RH max.
- Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently
- AEC-Q 200 qualified

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1.3	2013-02-14	SSt	SSt
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Projection

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EMC & Inductive Solutions
Max-Eyth-Str. 1
74638 Waldenburg
Germany
Tel. +49 (0) 79 42 945 - 0
www.we-online.com
eiSos@we-online.com

DESCRIPTION

WE-CBA SMD EMI Suppression Ferrite Bead

Order.- No.

782853910

COMPLIANT RoHS&REACh HALOGENFREE

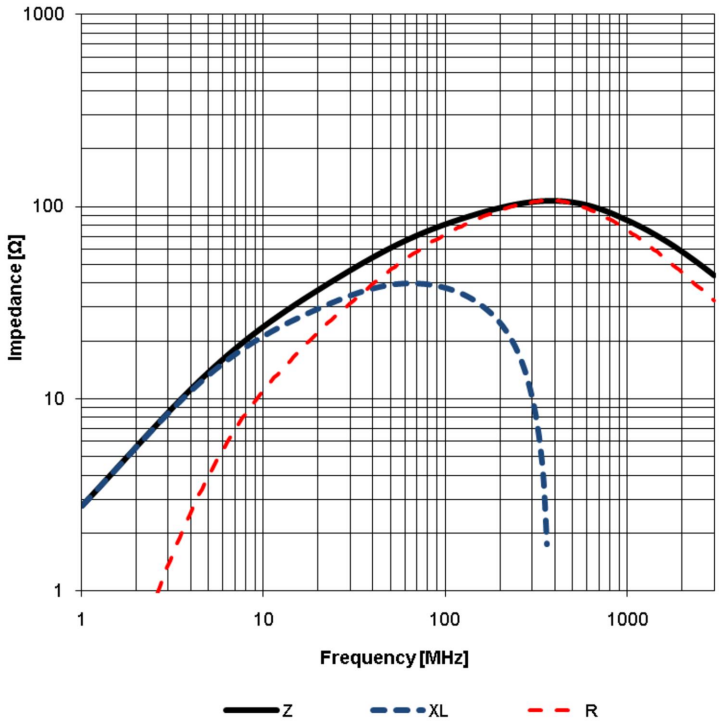
SIZE

A4

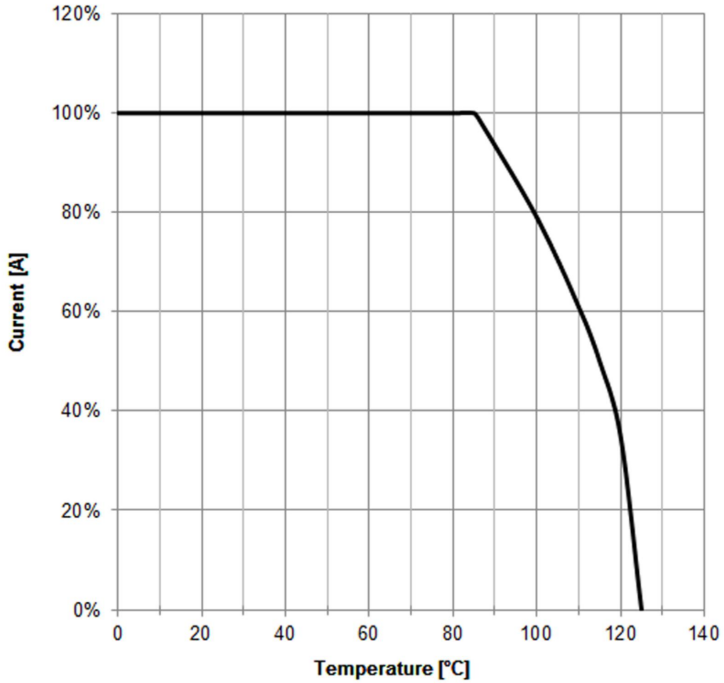
Size: 0805

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F1 Typical Impedance Characteristics:



F2 Derating Curve:



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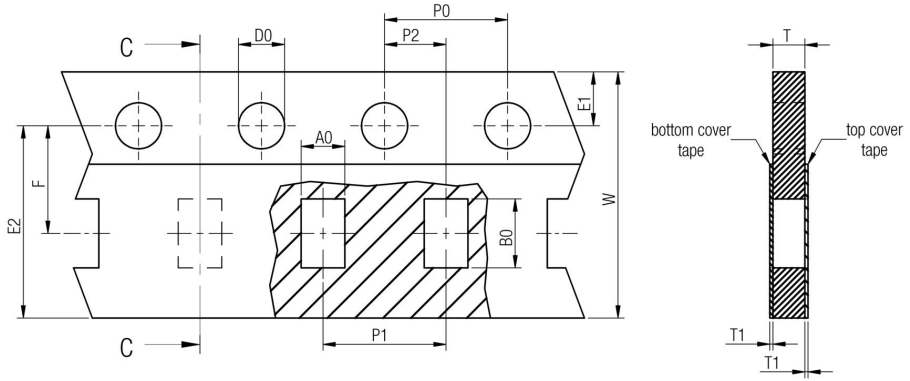
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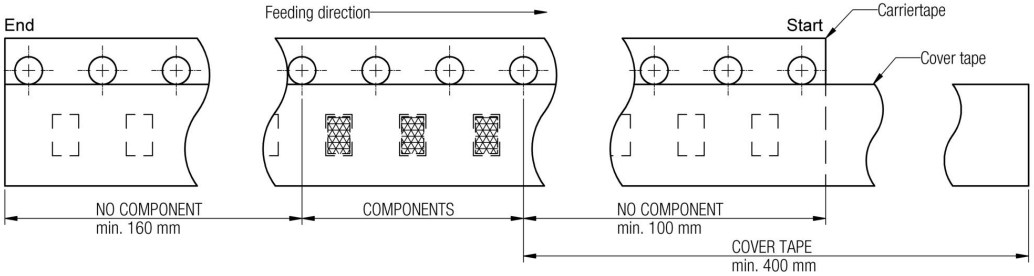
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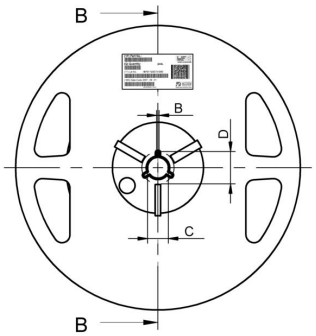
G Packaging Specification - Tape and Reel [mm]:

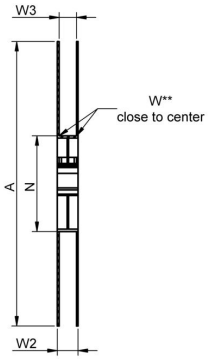


		A0	B0	W	P1	T	T1	D0	E1	E2	F	P0	P2	Tape	Packaging Unit
tolerance		typ.	typ.	+0,3 -0,1	± 0,1	max.	max.	+0,1 -0,0	± 0,1	min.	± 0,05	± 0,1	± 0,05		
size	**0402**	0,69	1,19	8,00	2,00	0,66	0,10	1,50	1,75	6,25	3,50	4,00	2,00	Paper	10000
	0603	1,10	1,88	8,00	4,00	1,10	0,10	1,50	1,75	6,25	3,50	4,00	2,00	Paper	4000
	0805	1,42	2,24	8,00	4,00	1,04	0,10	1,50	1,75	6,25	3,50	4,00	2,00	Paper	4000

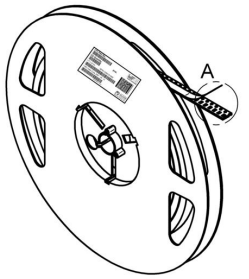


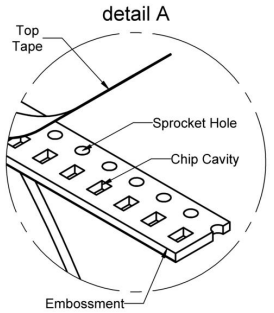
Packaging is referred to the international standard IEC 60286 -3:2007

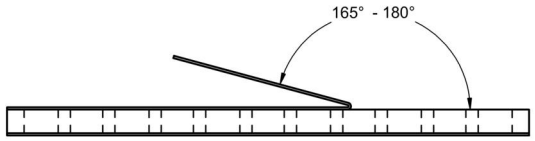




		A	B	C	D	N	W1	W2	W3	W3
tolerance			min.	± 0,8	min.	min.	+1,5	max.	min.	max.
Tape width	**8 mm**	178,00	1,50	13,00	20,20	50,00	8,40	14,40	7,90	10,90







	Pull-of force
Tape width **8 mm**	0,1 N - 1,0 N

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DESCRIPTION

WE-CBA SMD EMI Suppression Ferrite Bead

Order.- No.

782853910

COMPLIANT RoHS&REACh HALOGENFREE

SIZE

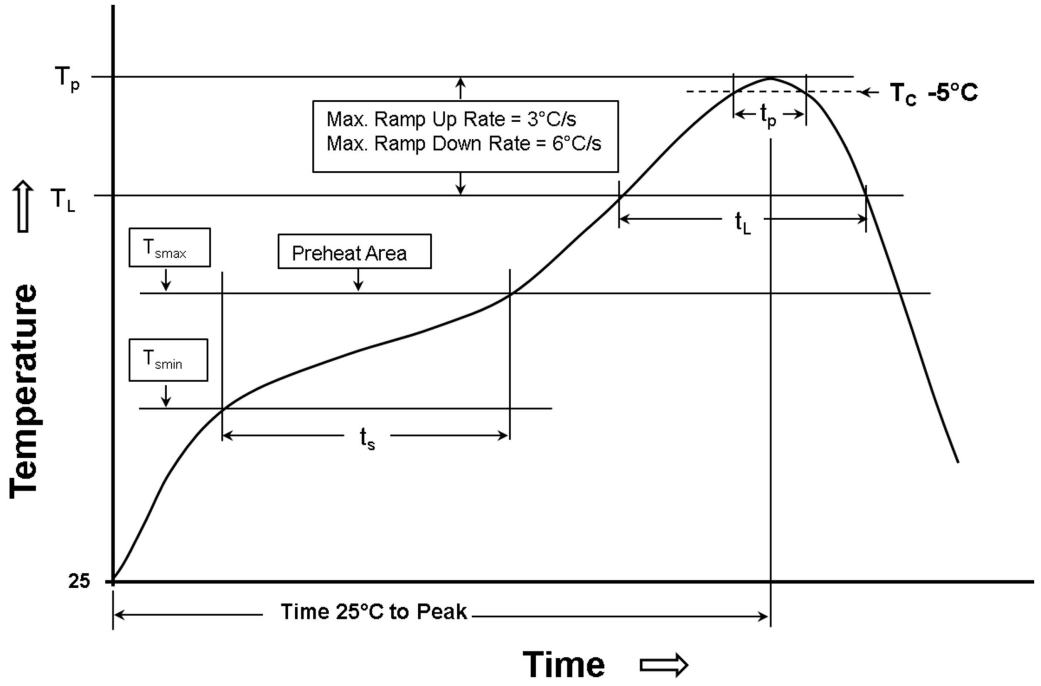
A4

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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 (T_p)	See Table H3	See table H3
Time within 5°C of actual peak temperature (t_p)	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 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
Sn-Pb Assembly	< 2.5 mm	235°C	220°C		
Sn-Pb Assembly	≥ 2.5 mm	220°C	220°C		

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Order.- No.

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COMPLIANT RoHS&REACh HALOGENFREE

SIZE

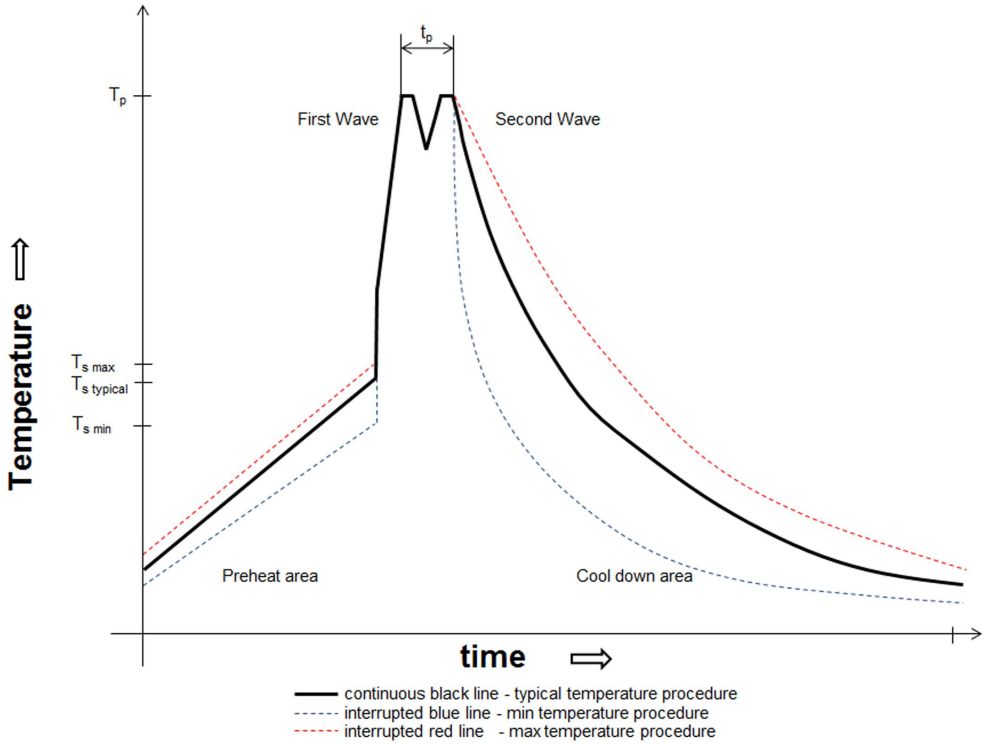
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H Soldering Specifications:

H4: Classification Wave Soldering Profile:



H5: Classification Wave Profile

Profile Feature	Pb-Free Assembly	Sn-Pb Assembly
Preheat - Temperature Min (T_{smin}) - Temperature Typical ($T_{stypical}$) - Temperature Max (T_{smax}) - Time (t_s) from (T_{smin} to T_{smax})	 100°C 120°C 130°C 70 seconds	 100°C 120°C 130°C 70 seconds
Δ preheat to max Temperature	150°C max.	150°C max.
Peak temperature (T_p)	250°C - 260°C	235°C - 260°C
Time of actual peak temperature (t_p)	max. 10 seconds max. 5 second each wave	max. 10 seconds max. 5 second each wave
Ramp-down rate - Min - Typical - Max	 ~ 2 K/s ~ 3.5 K/s ~ 5 K/s	 ~ 2 K/s ~ 3.5 K/s ~ 5 K/s
Time 25°C to 25°C	4 minutes	4 minutes

refer to EN 61760-1:2006

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I Cautions and Warnings:

The following condition s apply to all goods within the product series of WE-CBA 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 component surface, 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 ferrite body 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 ferrite body 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 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 ferrite body 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.
- Wave soldering is only allowed after evaluation and approval.
- 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.

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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 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.

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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