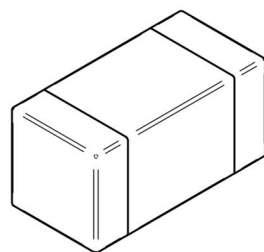
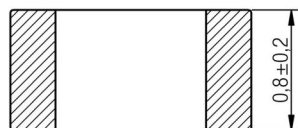
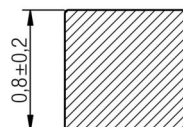
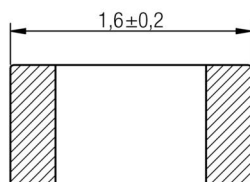
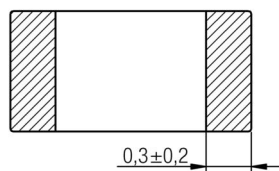
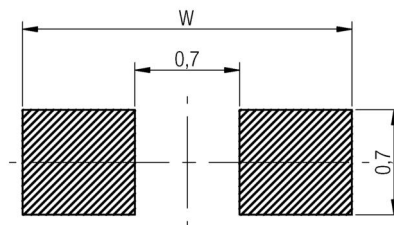


A Dimensions: [mm]

Scale - 20:1

B Recommended land pattern: [mm]

WIDE BAND / HIGH SPEED: $W = 2,2$
HIGH CURRENT: $W = 2,6$

Scale - 20:1

C Schematic:**D Electrical Properties:**

| Properties | Test conditions | | Value | Unit | Tol. |
|---------------------|------------------|----------|-----------|----------|------------|
| Impedance @ 100 MHz | 100 MHz | Z | 1000 | Ω | $\pm 25\%$ |
| Impedance @ 1 GHz | 1 GHz | Z | 1100 | Ω | min. |
| Maximum impedance | 550 MHz | Z | 2200 | Ω | typ. |
| Rated current | $\Delta T = 20K$ | I_R | 50 | mA | max. |
| DC Resistance | | R_{DC} | 1.80 | Ω | max. |
| Type | | | Wide Band | | |

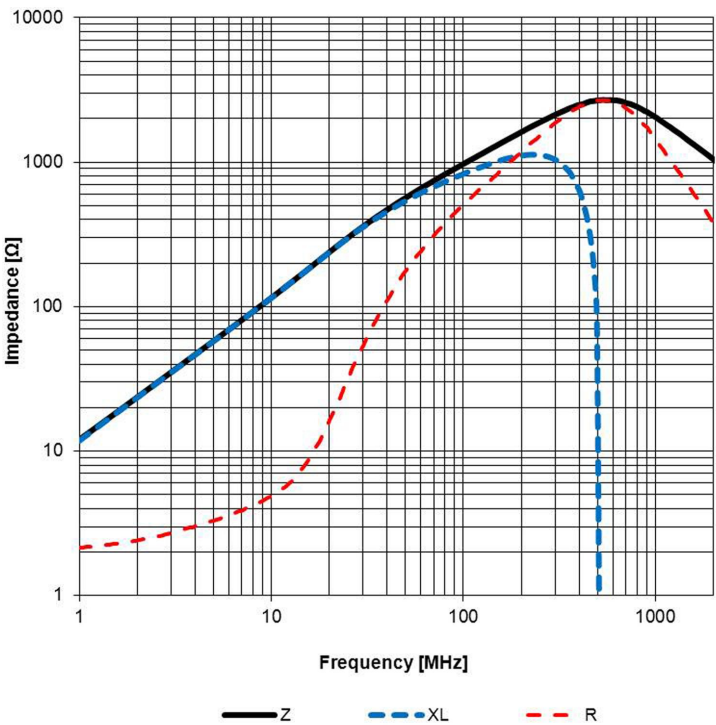
E General information:

Do not use this part beyond the Rated Current, as this will create excessive heat and can harm the component
Storage Temperature (on Tape & Reel): -20°C to $+60^{\circ}\text{C}$
Operating Temperature: -55°C to $+125^{\circ}\text{C}$
Test conditions of Electrical Properties: 20°C , 33% RH
if not specified differently

| | | | | | |
|-----|------------|-----|---------|---|--|
| | | | | Projection | DESCRIPTION |
| 3.4 | 2012-11-28 | SSt | SSt | Würth Elektronik eiSos GmbH & Co. KG 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 | WE-CBF HF SMD EMI Suppression Ferrite Bead (High Frequency) |
| 3.3 | 2012-10-23 | SSt | SMu | | |
| 3.2 | 2012-09-27 | SSt | SMu | | Order.- No. |
| 3.1 | 2012-06-27 | SSt | SSt | | 742861210 |
| 3.0 | 2012-03-29 | SSt | SMu | | |
| 2.0 | 2009-08-13 | SMu | - | | Size: 0603 |
| REV | DATE | BY | CHECKED | | SIZE |
| | | | | | A4 |

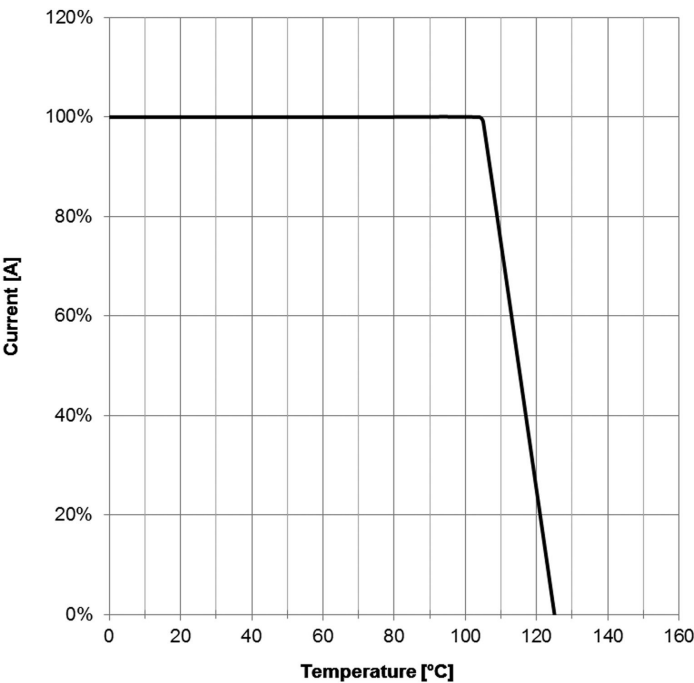


F Typical Impedance Characteristics:



Test Equipment: E4991A or equivalent

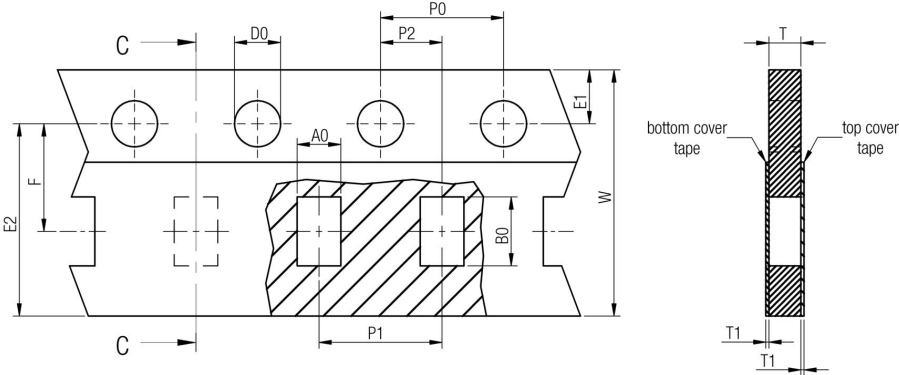
F Derating Curve:



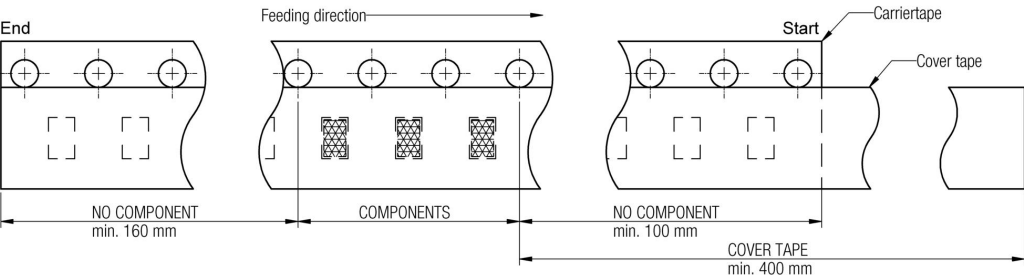
| | | | | | | | |
|-----|------------|-----|---------|--|--|-------------------------------|--|
| | | | | <div>Projection</div>  | DESCRIPTION | | |
| 3.4 | 2012-11-28 | SSt | SSt | | <div>WE-CBF HF SMD EMI Suppression Ferrite Bead (High Frequency)</div> | | |
| 3.3 | 2012-10-23 | SSt | SMu | <div>Würth Elektronik eiSos GmbH & Co. KG</div> <div>EMC & Inductive Solutions</div> <div>Max-Eyth-Str. 1</div> <div>74638 Waldenburg</div> <div>Germany</div> <div>Tel. +49 (0) 79 42 945 - 0</div> <div>www.we-online.com</div> <div>eiSos@we-online.com</div> | | | |
| 3.2 | 2012-09-27 | SSt | SMu | | | | |
| 3.1 | 2012-06-27 | SSt | SSt | | | | |
| 3.0 | 2012-03-29 | SSt | SMu | | | | |
| 2.0 | 2009-08-13 | SMu | - | | | | |
| REV | DATE | BY | CHECKED | <div>Order.- No.</div> <div>742861210</div> <div>Size: 0603</div> | | | |
| | | | | <div>COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK</div> | | <div>SIZE</div> <div>A4</div> | |

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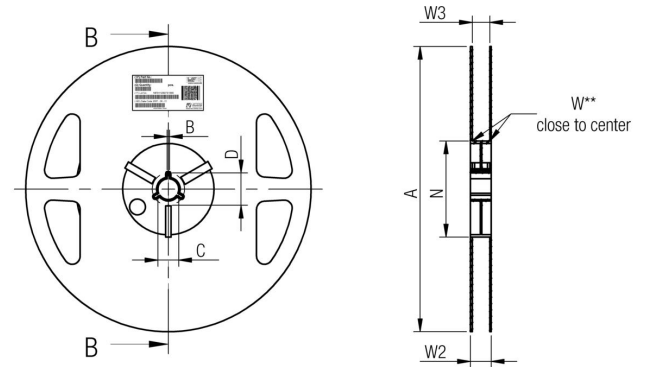
G Packaging Specification: [mm]



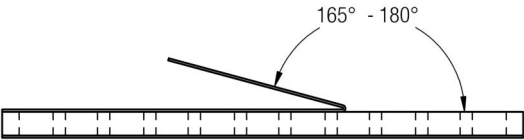
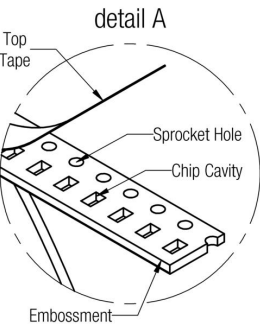
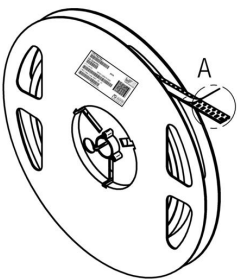
| size | | A0 | B0 | W | P1 | T | T1 | D0 | E1 | E2 | F | P0 | P2 | Tape | Packaging Unit |
|------|-----------|------|------|--------------|-------|------|------|--------------|-------|------|--------|-------|--------|-------|----------------|
| | tolerance | typ. | typ. | +0,3 -0,1 | ± 0,1 | max. | max. | +0,1 -0,0 | ± 0,1 | min. | ± 0,05 | ± 0,1 | ± 0,05 | | |
| | 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

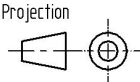


| | A | B | C | D | N | W1 | W2 | W3 | W3 |
|------------|------|--------|-------|-------|-------|-------|------|-------|------|
| tolerance | | min. | ± 0,8 | min. | min. | +1,5 | max. | min. | max. |
| Tape width | 8 mm | 178,00 | 1,50 | 13,00 | 20,20 | 50,00 | 8,40 | 14,40 | 7,90 |



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

| 3.4 | 2012-11-28 | SSt | SSt |
|-----|------------|-----|---------|
| 3.3 | 2012-10-23 | SSt | SMu |
| 3.2 | 2012-09-27 | SSt | SMu |
| 3.1 | 2012-06-27 | SSt | SSt |
| 3.0 | 2012-03-29 | SSt | SMu |
| 2.0 | 2009-08-13 | SMu | - |
| REV | DATE | BY | CHECKED |



Würth Elektronik eiSos GmbH & Co. KG
EMC & Inductive Solutions
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74638 Waldenburg
Germany
Tel. +49 (0) 79 42 945 - 0
www.we-online.com
eiSos@we-online.com

DESCRIPTION

WE-CBF HF SMD EMI Suppression Ferrite Bead (High Frequency)

Order.- No.

742861210

Size: 0603



SIZE

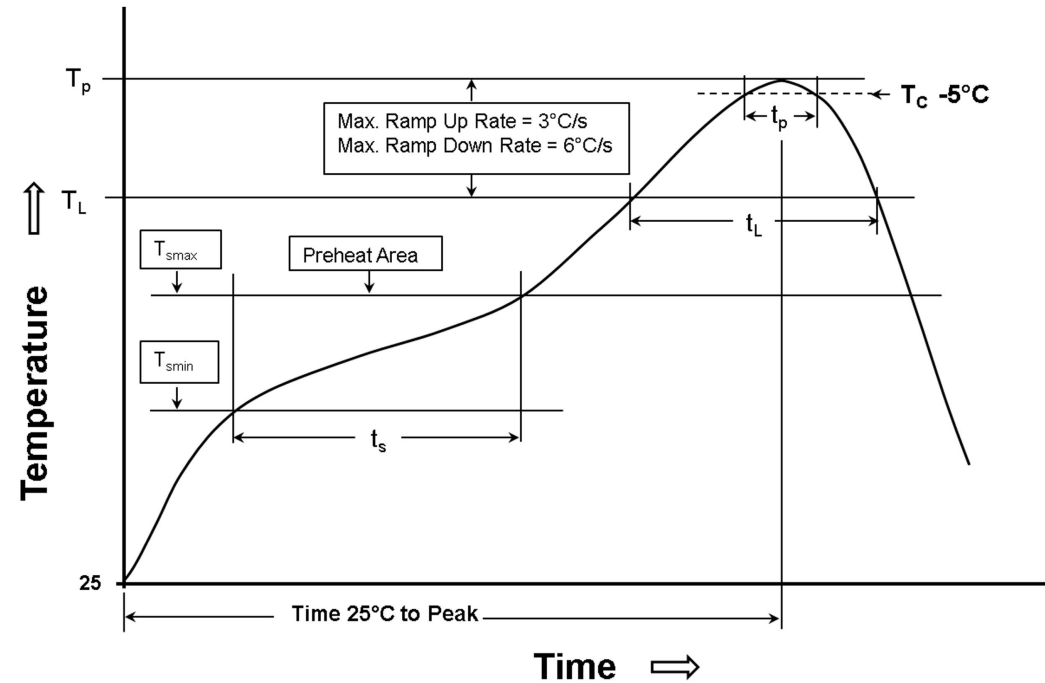
A4

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H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

| Profile Feature | Pb-Free Assembly |
|---|----------------------------------|
| Preheat <ul style="list-style-type: none">- Temperature Min (T_{smin})- Temperature Max (T_{smax})- Time (t_s) from (T_{smin} to T_{smax}) | 150°C 200°C 60-180 seconds |
| Ramp-up rate (T_L to T_P) | 3°C/ second max. |
| Liquidous temperature (T_L) Time (t_L) maintained above T_L | 217°C 60-150 seconds |
| Peak package body temperature (T_P) | See Table H3 |
| 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-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

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I Cautions and Warnings:

The following conditions apply to all goods within the product series of **WE-CBF HF** 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 disposal 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 customer applications, the potting material might shrink during and after hardening. Accordingly to this 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 endanger 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 for customer specific products.

Cleaning agents that are used to clean the 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 ferrite material of the ferrite body could flake or in the worst case it could break.

Product specific:

Follow all instructions mentioned in the datasheet, especially:

- The solder profile has to be complied with according to the technical reflow soldering specification, otherwise no warranty will be sustained.
- Wave soldering is only allowed after evaluation and approval.
- All products are supposed to 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 warranted.
- Violation of the technical product specifications such as exceeding the nominal rated current will result in the loss of warranty.



| | | | | | | |
|-----|------------|-----|---------|---|--|--|
| | | | | Projection | | DESCRIPTION |
| 3.4 | 2012-11-28 | SSt | SSt | Würth Elektronik eiSos GmbH & Co. KG 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 | | WE-CBF HF SMD EMI Suppression Ferrite Bead (High Frequency) |
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| REV | DATE | BY | CHECKED | | | Order.- No. 742861210 Size: 0603 |
| | | | | | | COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK |
| | | | | | | SIZE A4 |

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.