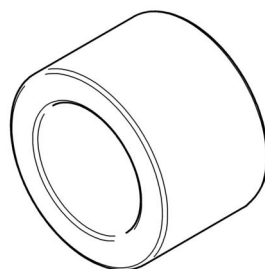
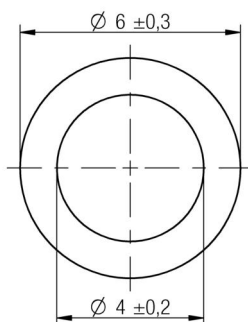
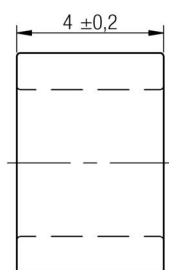
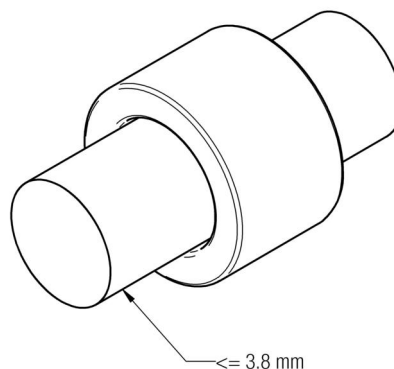


**A Dimensions: [mm]**

Scale - 5:1

**B Applicable Cable Diameter: [mm]**

Scale - 5:1

**D Electrical Properties:**

Properties	Test conditions		Value	Unit	Tol.
Impedance @ 25 MHz 1 turn	25 MHz	Z	20	Ω	±25%
Impedance @ 100 MHz 1 turn	100 MHz	Z	45	Ω	±25%

**E General information:**

- Storage Temperature (before assembly): -20°C to +60°C
- Operating Temperature: -25°C to +105°C
- Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently

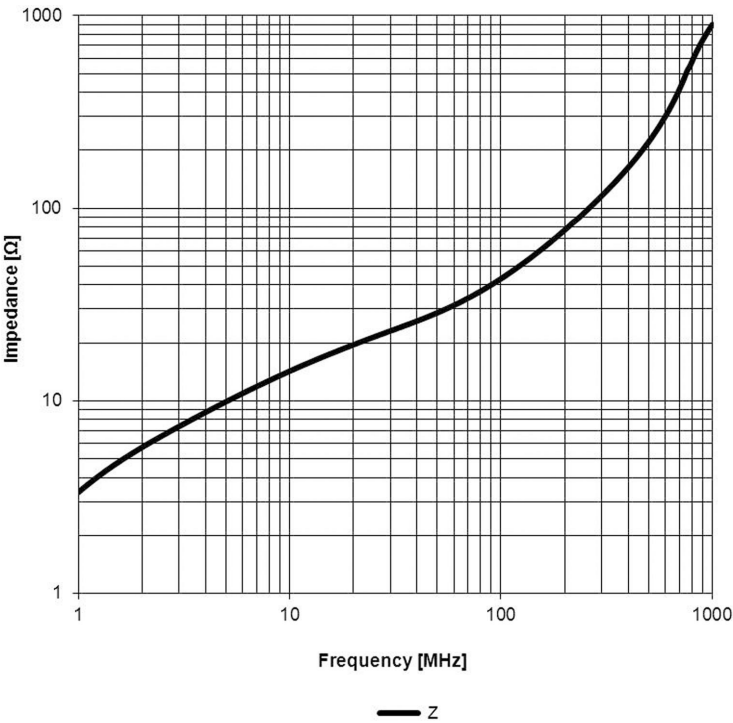
				Projection		DESCRIPTION
2.6	2014-06-10	SSt	SSt			<b>WE-SAFB Small Size EMI Suppression Ferrite Bead</b>
2.5	2014-01-02	SSt	SSt			
2.4	2013-04-22	SSt	SSt	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		Order.- No. <b>742700221</b>
2.3	2012-11-28	SSt	SSt			
2.2	2012-11-13	SSt	SMu			
2.1	2012-10-18	SSt	SMu			
2.0	2012-09-27	SSt	SMu			
REV	DATE	BY	CHECKED			<b>COMPLIANT RoHS&amp;REACH</b> WÜRTH ELEKTRONIK
						SIZE A4

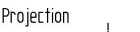



D2 General Properties:

	Properties		Value	Unit	Tol.
Cable diameter	Cable diameter		≤3.8	mm	
Ferrite core	Material		4 W 1500		
Ferrite core	Initial permeability	μ <sub>i</sub>	1500		typ.
Ferrite core	Curie temperature	T <sub>C</sub>	120	°C	typ.
Test cable	Applicable cable		AWG26		
Test cable	Applicable cable length		165	mm	

F1 Typical Impedance Characteristics:



				<div>Projection</div> 		DESCRIPTION				
2.6	2014-06-10	SSt	SSt			<div>WE-SAFB Small Size EMI Suppression Ferrite Bead</div>				
2.5	2014-01-02	SSt	SSt							
2.4	2013-04-22	SSt	SSt	<div>Würth Elektronik eiSos GmbH &amp; Co. KG EMC &amp; Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com</div>			Order.- No.		<div><div>COMPLIANT RoHS&amp;REACH WÜRTH ELEKTRONIK</div></div>	SIZE
2.3	2012-11-28	SSt	SSt				<div>742700221</div>			A4
2.2	2012-11-13	SSt	SMu							
2.1	2012-10-18	SSt	SMu							
2.0	2012-09-27	SSt	SMu							
REV	DATE	BY	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 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 Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik eiSos GmbH & 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 circuits that require high safety and reliability functions or performance.

## I Cautions and Warnings:

**The following conditions apply to all goods within the product series of WE-SAFB 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 molded in costumer applications, the molding material might shrink during and after hardening. The product is exposed to the pressure of the molding material with the effect that the ferrite body is possibly damaged by this pressure and so the electrical as well as the mechanical characteristics are endangered to be affected. After the molding material is cured, the ferrite body 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 or body.

The usage in acidly as well as salted environment can be the reason for oxide (rust) at the surface of the ferrite body, damage or changes at the characteristics of the material. The acidly or salted environment could have a negative effect on the long turn 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:

- Violation of the technical product specifications such as exceeding the maximal outer diameter of the cable 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.



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