

# Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number :

**744711003**

LF



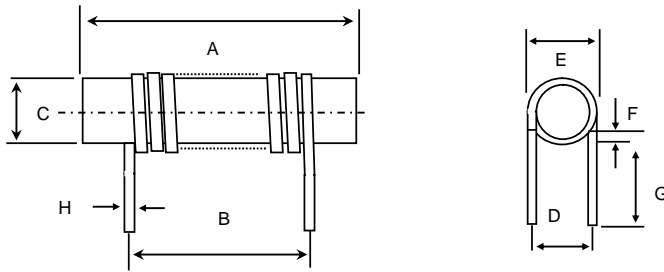
Bezeichnung : **Stabkerndrossel WE-SD**

description : **Rod Core Inductor WE-SD**

**WÜRTH ELEKTRONIK**

DATUM / DATE : 2005-08-23

## A Mechanische Abmessungen / dimensions :



Dimension	Value	Unit
A	<b>18,5 max.</b>	mm
B	<b>13,5 ± 0,5</b>	mm
C	<b>4,0 typ.</b>	mm
D	<b>4,6 ± 0,5</b>	mm
E	<b>5,2 max.</b>	mm
F	<b>1,0 min</b>	mm
G	<b>3,0 ± 0,5</b>	mm
H	<b>ø 0,5 ref</b>	mm

## B Elektrische Eigenschaften / electrical properties :

Eigenschaften / properties	Testbedingungen / test conditions	Wert / value	Einheit / unit	tol.
Leerlaufinduktivität / OC-Inductance	<b>10 kHz / 5 mA</b>	$L_0$	<b>10,0</b>	$\mu\text{H}$ ±25%
Nenninduktivität / nominal inductance	<b>10 kHz / 5 mA / <math>I_N</math></b>	$L_N$	<b>10,0</b>	$\mu\text{H}$ typ.
DC-Widerstand / DC-resistance	<b>@ 20°C</b>	$R_{DC}$	<b>33,0</b>	$\text{m}\Omega$ ±20%
Nennstrom / rated current	<b><math>\Delta T=40\text{K}</math></b>	$I_N$	<b>2,5</b>	A typ.
Eigenres.-Frequenz / self-res.-frequency		SRF	<b>45,0</b>	MHz typ.

## C Lötpad / soldering spec. :

## D Prüfgeräte / test equipment :

**Wayne Kerr 3260 B** für/for L und/and  $R_{DC}$

**HP 4396 B** für/for SRF

## E Testbedingungen / test conditions :

Luftfeuchtigkeit / humidity: 33%

Umgebungstemperatur / temperature: +20°C

## F Werkstoffe & Zulassungen / material & approvals :

Basismaterial / base material:

Ferrit / ferrite

Draht/ wire :

DIN EN 60317-13

## G Eigenschaften / general specifications :

Betriebstemp. / operating temperature: -40°C - + 150°C

Umgebungstemp. / ambient temperature: -40°C - + 110°C

It is recommended that the temperature of the part does not exceed 150°C under worst case operating conditions.

Freigabe erteilt / general release:	<b>Kunde / customer</b>		
.....	.....		
Datum / date	Unterschrift / signature		
.....	.....		
	<b>Würth Elektronik</b>		
.....	.....	RSt	Rdc-Korrektur 06-11-23
Geprüft / checked	Kontrolliert / approved	MST	Version 1 05-08-23
		Name	Änderung / modification Datum / date

**Würth Elektronik eiSos GmbH & Co.KG**

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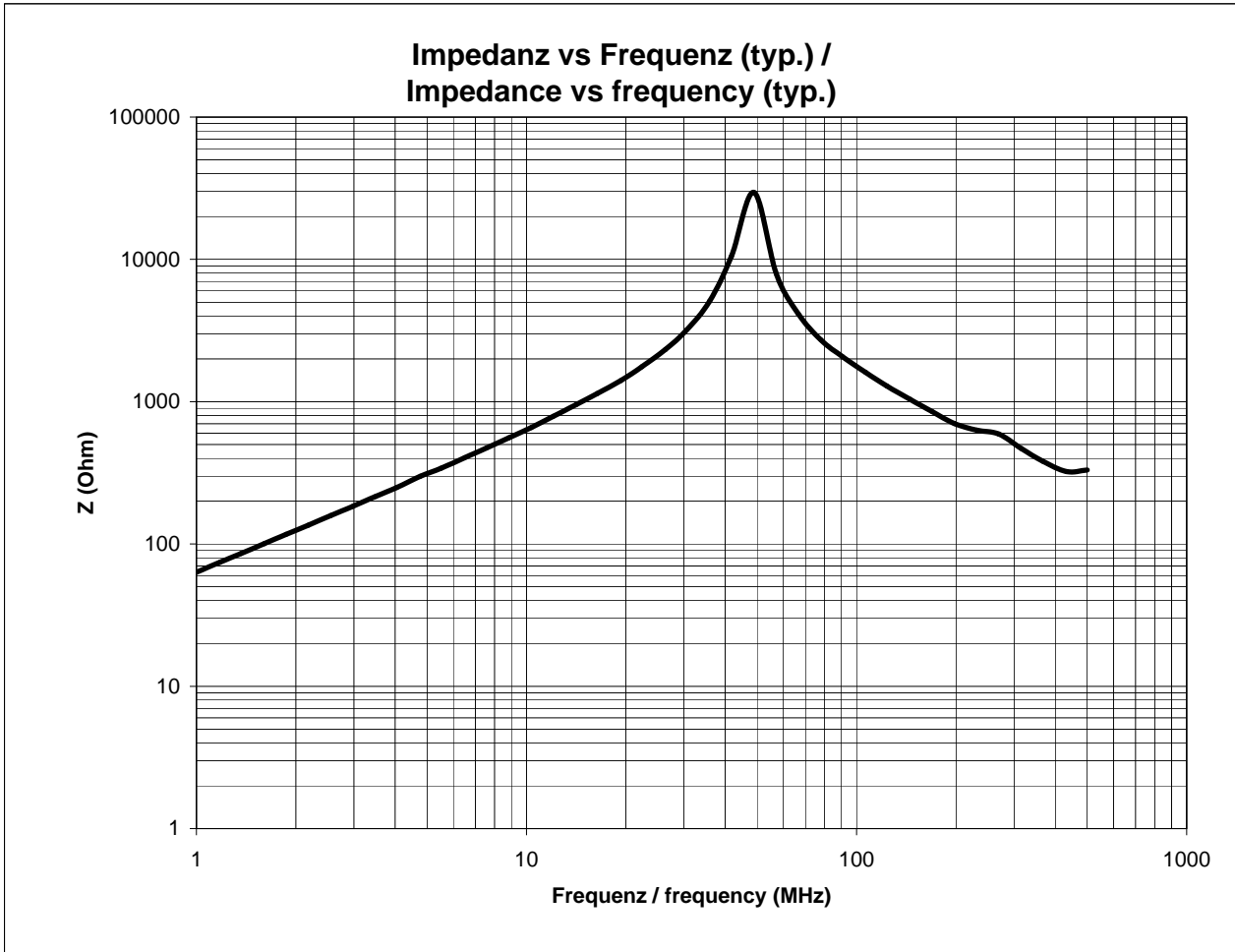
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## H Impedanzkurve / Impedance curve :



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This electronic component has been designed and developed for usage in general electronic equipment. Before incorporating this component into any equipment where higher safety and reliability is especially required or if there is the possibility of direct damage or injury to human body, for example in the range of 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 must be informed 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.

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