

# Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number : **744318180**

LF



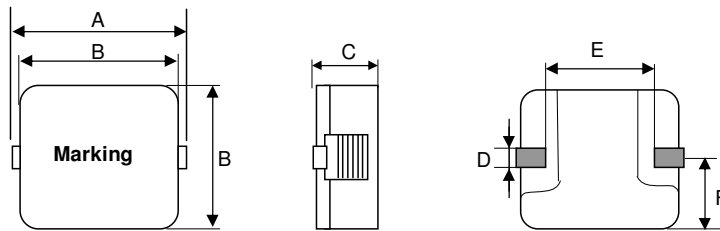
Bezeichnung : **SMD HOCHSTROMINDUKTIVITÄT WE-HC**

description : **SMD POWER CHOKE WE-HC**

**WÜRTH ELEKTRONIK**

DATUM / DATE : 2007-11-01

## A Mechanische Abmessungen / dimensions :

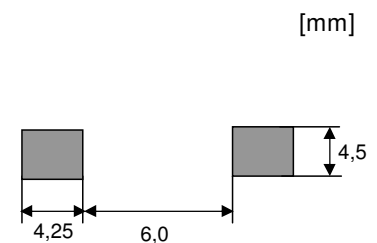


A	<b>13,5 ± 0,4</b>	mm
B	<b>12,8 ± 0,3</b>	mm
C	<b>4,9 ± 0,3</b>	mm
D	<b>2,3 ± 0,2</b>	mm
E	<b>8,0 ± 0,8</b>	mm
F	<b>6,4 ± 0,3</b>	mm
G		mm
H		mm

## B Elektrische Eigenschaften / electrical properties :

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Induktivität / inductance	<b>100 kHz / 0,1V</b>	$L_o$	<b>1,80</b>	$\mu$ H	$\pm 20\%$
Nenn-Induktivität / rated inductance	<b>100 kHz / 0,1V / 18A</b>	$L_N$	<b>1,40</b>	$\mu$ H	$\pm 20\%$
DC-Widerstand / DC-resistance	<b>@ 20° C</b>	$R_{DC}$	<b>3,20</b>	m $\Omega$	$\pm 8\%$
Nennstrom / rated current	<b><math>\Delta T = 50</math> K</b>	$I_{DC}$	<b>18,0</b>	A	typ.
Sättigungsstrom / saturation current	<b><math>\Delta L/L_o = -30\%</math></b>	$I_{sat}$	<b>24,0</b>	A	typ.
Eigenres.-Frequenz / self.res.-frequency		SRF	<b>68,0</b>	MHz	ref.

## C Lötpad / soldering spec. :



## D Prüfgeräte / test equipment :

**HP 4274 A** für/for L und/and Q  
**HP 34401 A** für/for  $I_{DC}$  und/and  $R_{DC}$

## E Testbedingungen / test conditions :

Luftfeuchtigkeit / humidity: 33%  
 Umgebungstemperatur / temperature: + 25°C

## F Werkstoffe & Zulassungen / material & approvals :

Kernmaterial / core material: WE-Superflux 200  
 Draht / wire: Flatwire/ Flachdraht UL94-V0; 2UEWF 155°C

## G Eigenschaften / granted properties :

Arbeitstemperatur / operating temperature: -40°C - +150°C  
 Umgebungstemp. / ambient temperature: -40°C - +100°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>		
	ME	Version 7	2007-11-01
Datum / date	Unterschrift / signature		
	ME	Version 6	2005-04-18
Geprüft / checked	<b>Würth Elektronik</b>		
	MST	Version 5	2004-11-09
Kontrolliert / approved	Name		
	MST	Version 4	2004-10-11
	Änderung / modification		
	AG	Version 3	2003-06-11
	Datum / date		
	AG	Version 2	2003-03-12
	Neugestaltung		
	JH		2000-12-06

### Würth Elektronik eiSos GmbH & Co. KG

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<http://www.we-online.com>

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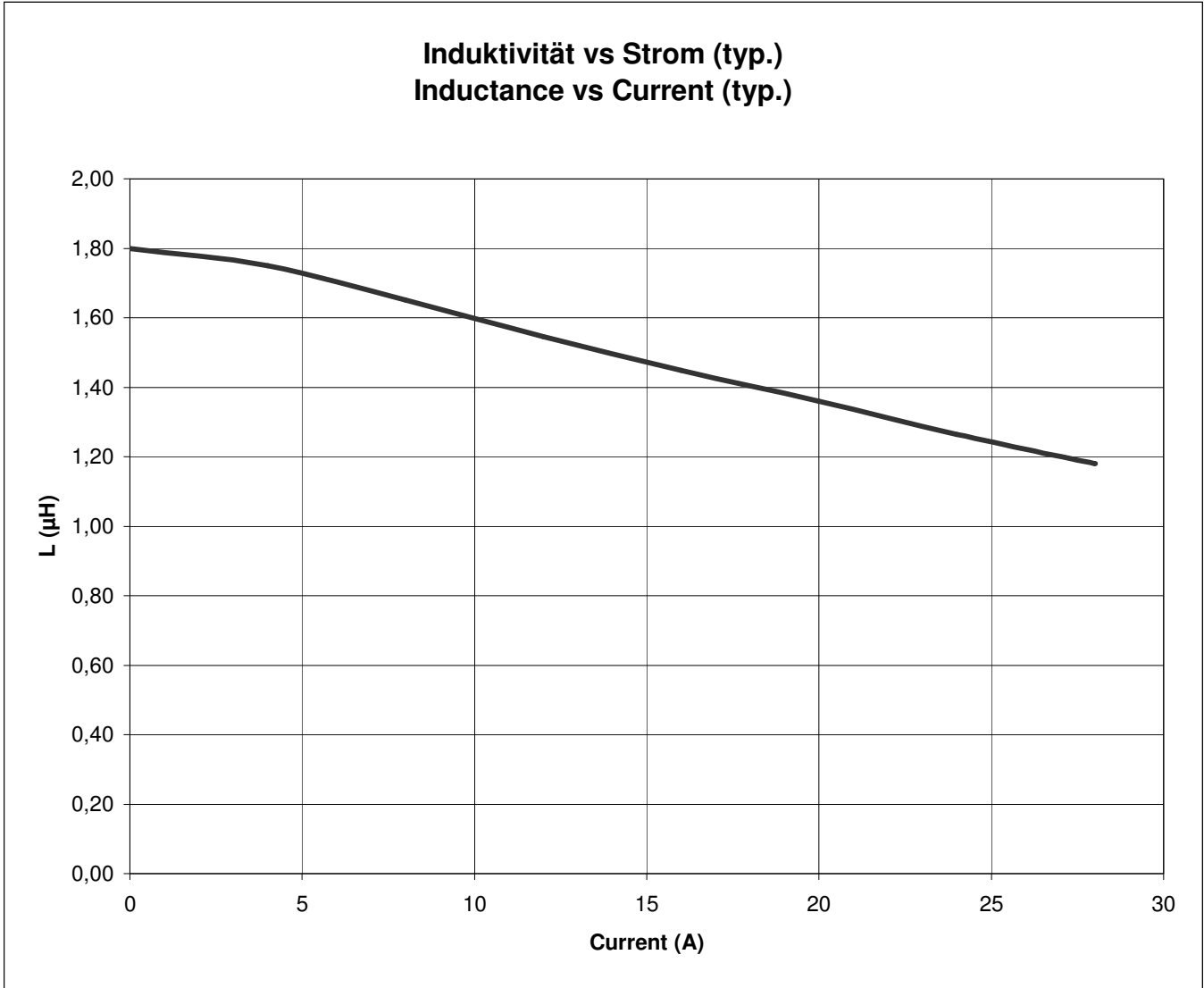
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## H Induktivitätskurve / Inductance curve :



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	<b>Würth Elektronik</b>	ME	Version 6	2005-04-18
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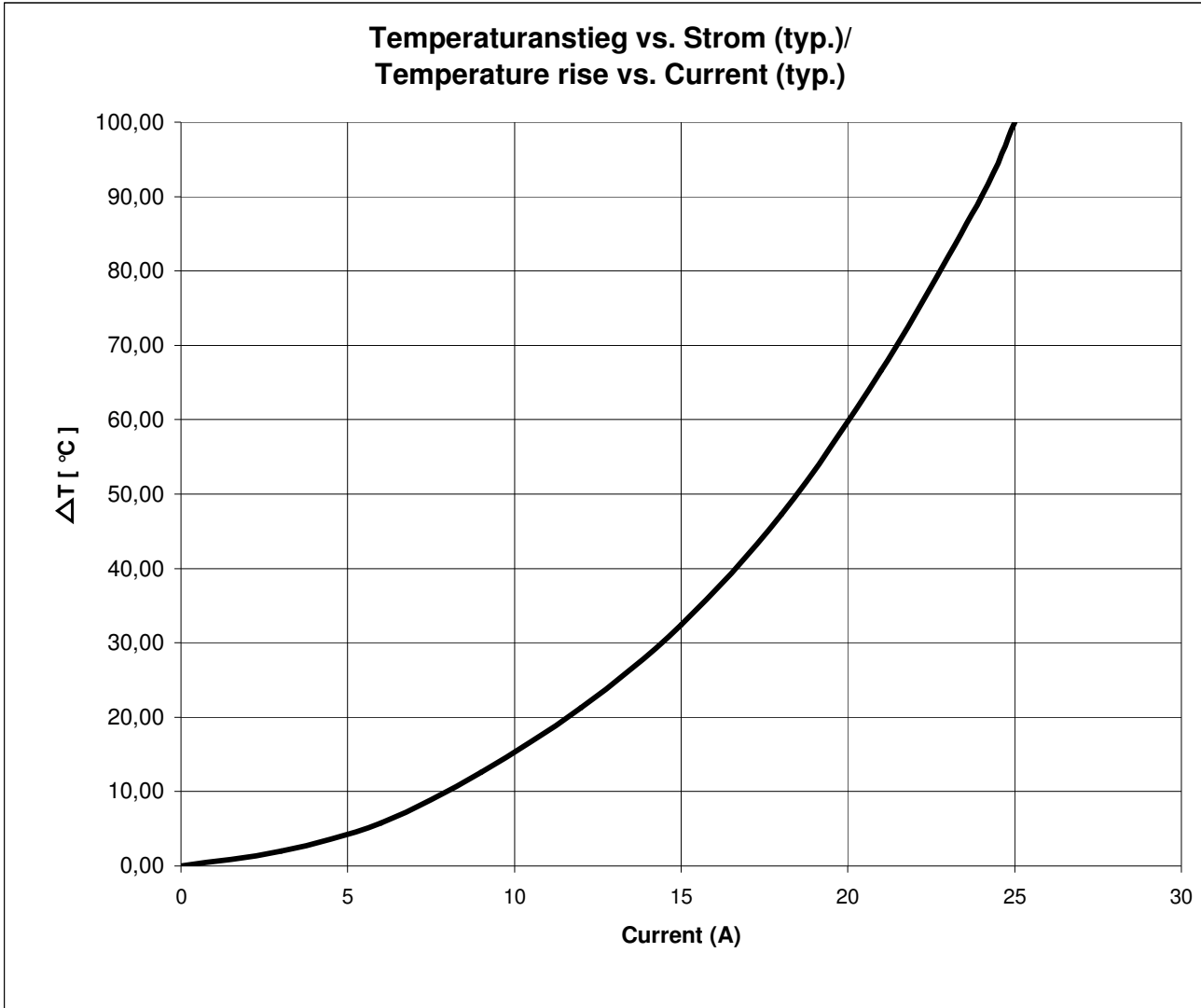
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Bezeichnung :

description :

## I Temperaturanstieg / Temperature rise curve :



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		ME	Version 6	2005-04-18
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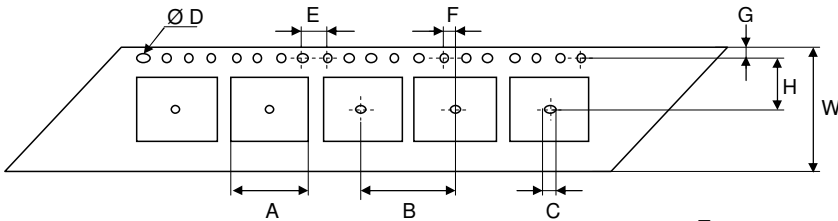


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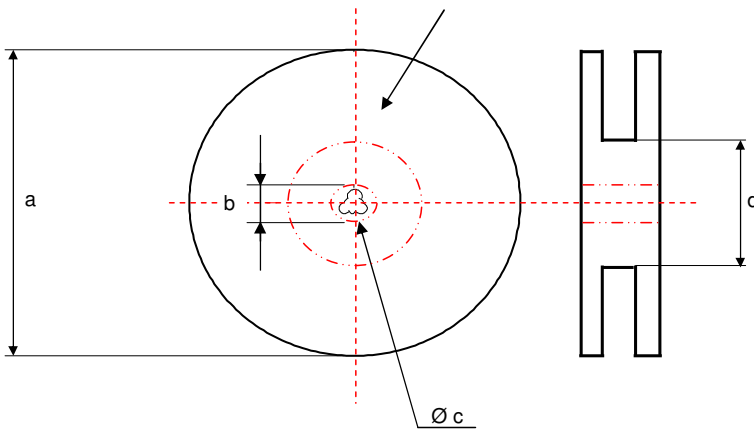
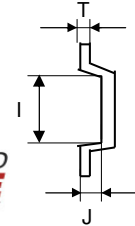
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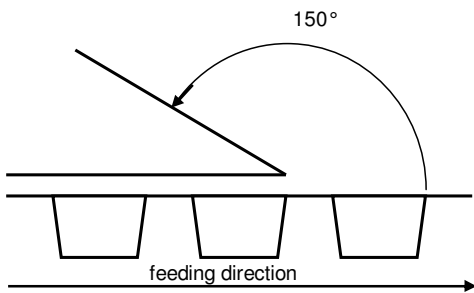
## J Rollenspezifikation / tape and reel specification :



Gurtspezifikation / Tape specification:		
A	<b>13,1 ± 0,1</b>	mm
B	<b>16,0 ± 0,1</b>	mm
C	<b>1,50 ± 0,05</b>	mm
D	<b>1,50 ± 0,05</b>	mm
E	<b>4,00 ± 0,1</b>	mm
F	<b>2,00 ± 0,1</b>	mm
G	<b>1,75 ± 0,1</b>	mm
H	<b>11,5 ± 0,1</b>	mm
I	<b>13,1 ± 0,1</b>	mm
J	<b>5,60 ± 0,1</b>	mm
T	<b>0,35 ± 0,05</b>	mm
W	<b>24,0 ± 0,3</b>	mm



Rollenspezifikation / Reel specification:		
a	<b>330,0 ± 0,5</b>	mm
b	<b>20,20 ± 0,1</b>	mm
c	<b>13,00<sup>+0,5</sup><sub>-1,0</sub></b>	mm
d	<b>100,0 ± 1,0</b>	mm



The Force for tearing off cover tape is 20 to 70 grams in arrow direction

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		ME	Version 7
Datum / date	Unterschrift / signature	ME	Version 6 05-04-18
	Würth Elektronik	MST	Version 5 04-11-09
Geprüft / checked	Kontrolliert / approved	MST	Version 4 04-10-11
		AG	Version 3 03-06-11
		AG	Version 2 03-03-12
		JH	Neugestaltung 00-12-06
		Name	Änderung / modification Datum / date

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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