

Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number :

744312025

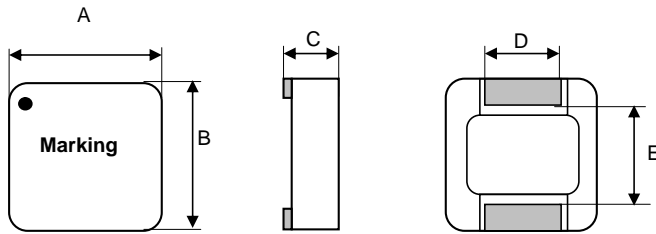
LF



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

DATUM / DATE : 2005-04-18

A Mechanische Abmessungen / dimensions :



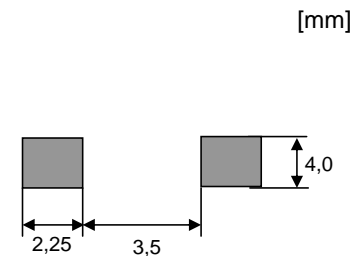
● = Indication start of winding

A	6,6 ± 0,4	mm
B	7,3 ± 0,4	mm
C	3,4 ± 0,4	mm
D	2,5 ± 0,4	mm
E	4,3 ± 0,4	mm
F		mm
G		mm
H		mm

B Elektrische Eigenschaften / electrical properties :

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Lerrlaufinduktivität / initial inductance	100 kHz / 0,1V	L_o	0,25	μH	$\pm 20\%$
Nenn-Induktivität / rated inductance	100 kHz / 0,1V / 18A	L_N	0,210	μH	typ.
DC-Widerstand / DC-resistance	@ 20° C	$R_{DC \text{ typ}}$	1,86	$\text{m}\Omega$	typ.
DC-Widerstand / DC-resistance	@ 20° C	$R_{DC \text{ max}}$	2,50	$\text{m}\Omega$	max.
Nennstrom / rated current	$\Delta T = 50 \text{ K}$	I_{DC}	18,0	A	typ.
Sättigungsstrom / saturation current	$\Delta L/L_o = -30\%$	I_{sat}	36,0	A	typ.
Eigenres.-Frequenz / self.res.-frequency		SRF	275,0	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:	Kunde / customer		
	ME	Version 6	2005-04-18
Datum / date	Unterschrift / signature		
	MST	Version 5	2004-11-09
Geprüft / checked	Würth Elektronik		
	MST	Version 4	2004-10-11
	AG	Version 3	2003-06-11
	AG	Version 2	2003-03-12
Kontrolliert / approved	JH	Neugestaltung	2000-12-06
	Name	Änderung / modification	Datum / date

Würth Elektronik eiSos GmbH & Co. KG

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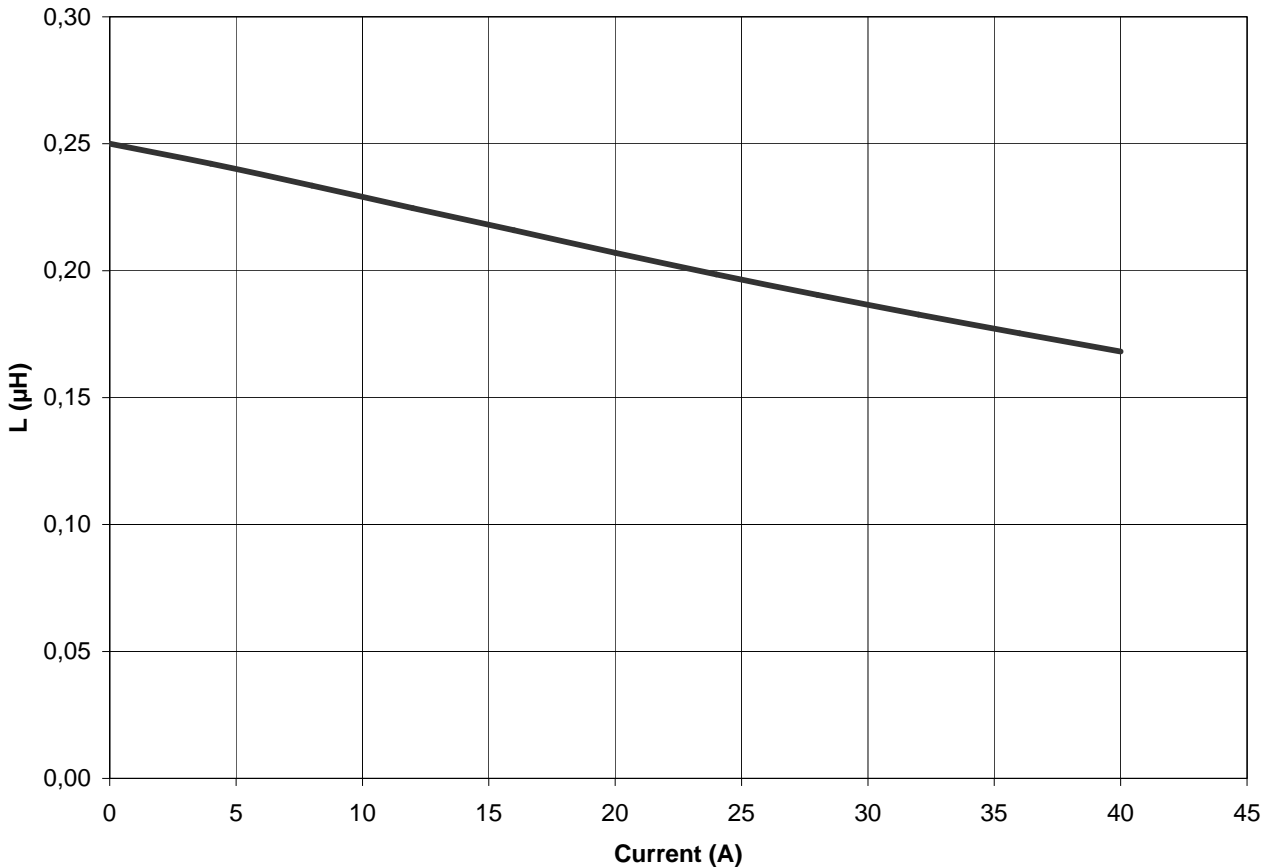
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H Induktivitätskurve / Inductance curve :

**Induktivität vs Strom (typ.)
Inductance vs Current (typ.)**



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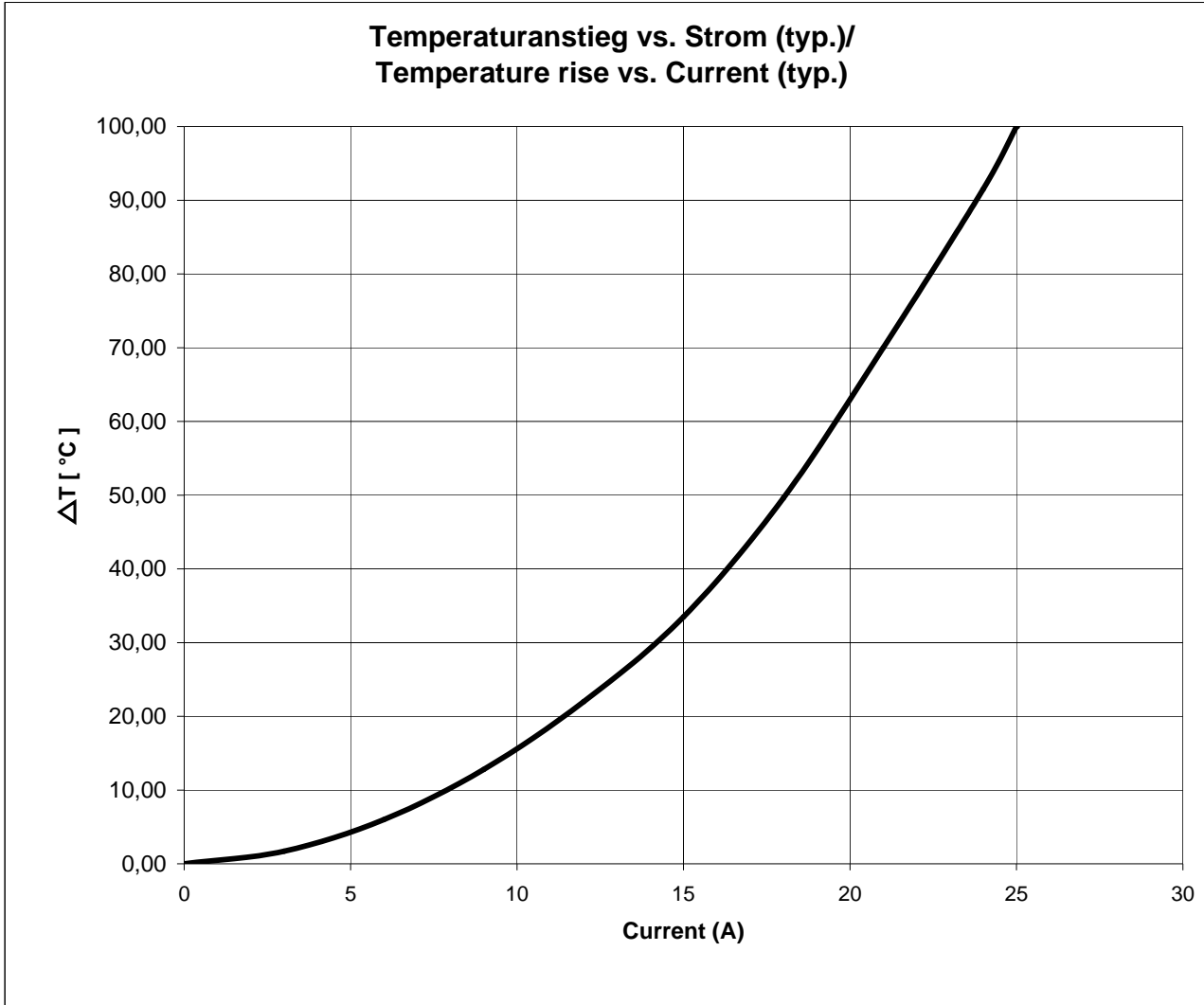
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I Temperaturanstieg / Temperature rise curve :



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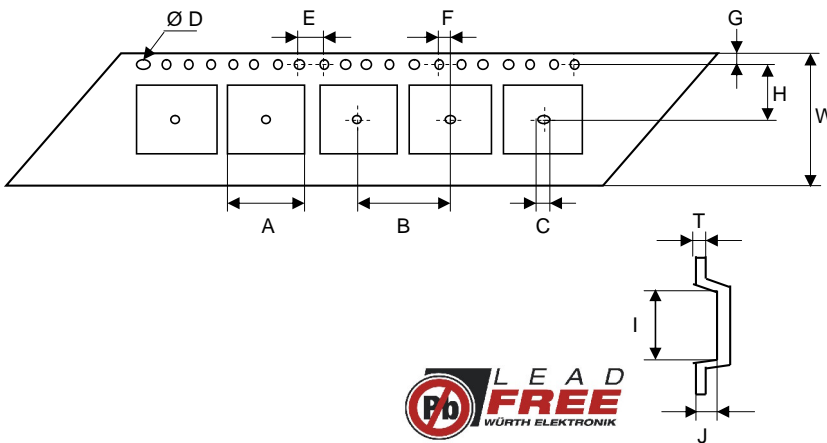


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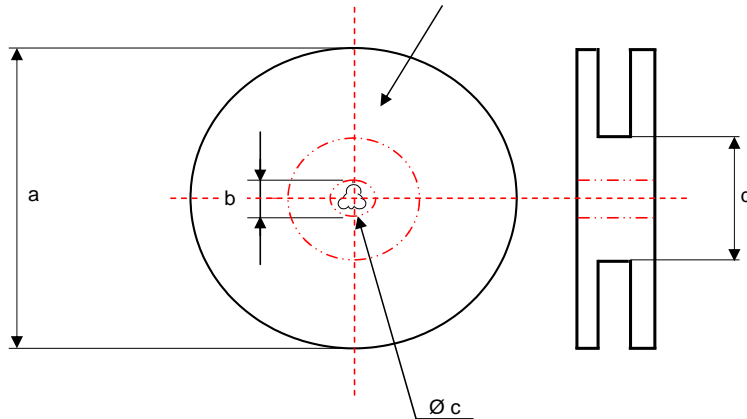
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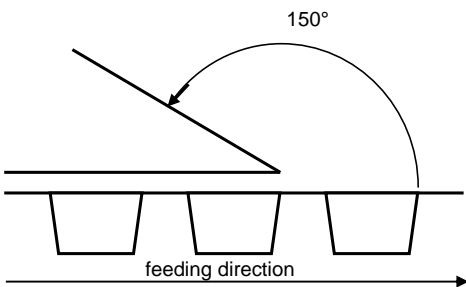
J Rollenspezifikation / tape and reel specification :



Gurtspezifikation / Tape specification:		
A	7,20 ± 0,1	mm
B	12,0 ± 0,1	mm
C	1,50^{+0,1}_{-0,0}	mm
D	1,50^{+0,1}_{-0,0}	mm
E	4,00 ± 0,1	mm
F	2,00 ± 0,1	mm
G	1,75 ± 0,1	mm
H	7,50 ± 0,1	mm
I	7,80 ± 0,1	mm
J	3,70 ± 0,1	mm
T	0,30 ± 0,1	mm
W	16,0 ± 0,3	mm



Rollenspezifikation / Reel specification:		
a	330,0 ± 0,5	mm
b	20,20 ± 0,1	mm
c	13,00^{+0,5}_{-1,0}	mm
d	100,0 ± 1,0	mm



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

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	ME	Version 6	05-04-18
	MST	Version 5	04-11-09
	MST	Version 4	04-10-11
	AG	Version 3	03-06-11
	AG	Version 2	03-03-12
	JH	Neugestaltung	00-12-06

This electronic component is designed and developed with the intention for use in general electronics equipments. Before incorporating the components into any equipments in the field such as aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc. where higher safety and reliability are especially required or if there is possibility of direct damage or injury to human body. In addition, even electronic component in general electronic equipments, when used in electrical circuits that require high safety, reliability functions or performance, the sufficient reliability evaluation-check for the safety must be performed before use. It is essential to give consideration when to install a protective circuit at the design stage.

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