

Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number :

744312150

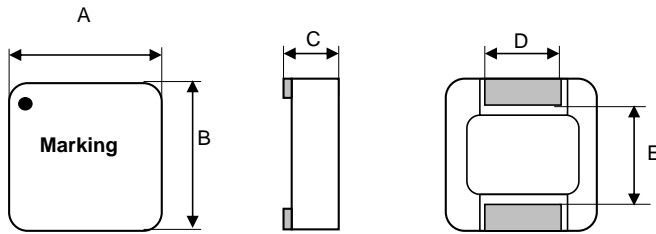
LF



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

DATUM / DATE : 2005-04-18

A Mechanische Abmessungen / dimensions :



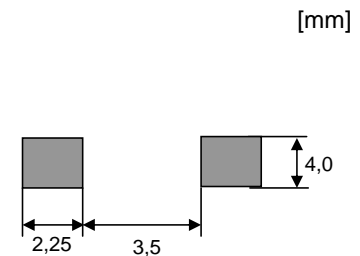
● = Indication start of winding

Dimension	Value	Unit
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 ₀	1,50	µH	± 20%
Nenn-Induktivität / rated inductance	100 kHz / 0,1V / 9A	L _N	1,170	µH	typ.
DC-Widerstand / DC-resistance	@ 20° C	R _{DC typ}	9,57	mΩ	typ.
DC-Widerstand / DC-resistance	@ 20° C	R _{DC max}	10,50	mΩ	max.
Nennstrom / rated current	ΔT = 50 K	I _{DC}	9,0	A	typ.
Sättigungsstrom / saturation current	ΔL/L ₀ = -30%	I _{sat}	11,5	A	typ.
Eigenres.-Frequenz / self.res.-frequency		SRF	87,0	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
Datum / date		Unterschrift / signature		MST	Version 5
.....			MST	Version 4
		Würth Elektronik		SST	Version 3
.....			AG	Version 2
Geprüft / checked		Kontrolliert / approved		JH	Neugestaltung
				Name	Änderung / modification
				Datum / date	

Würth Elektronik eiSos GmbH & Co. KG

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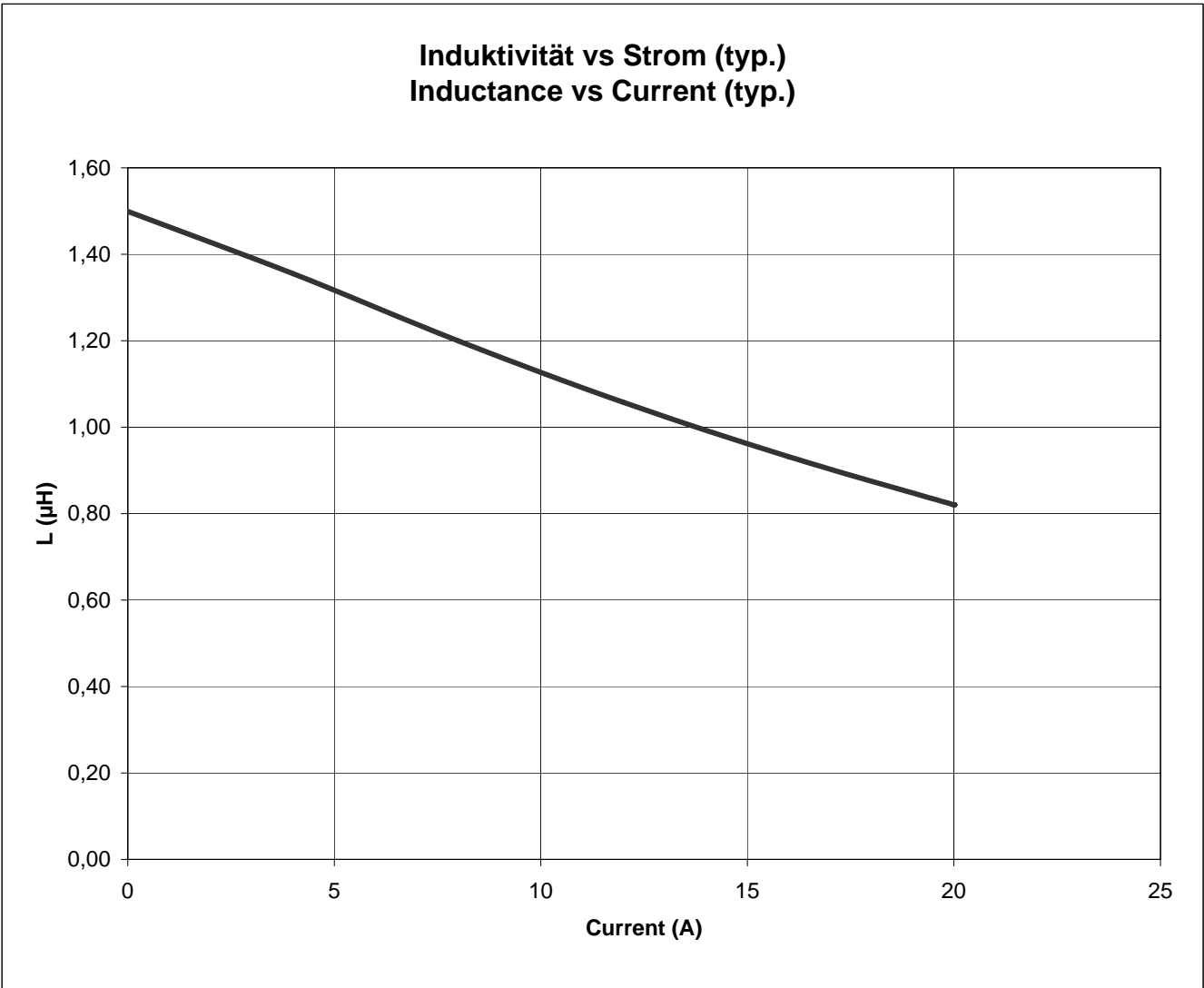
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H Induktivitätskurve / Inductance curve :



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		ME	Version 6	2005-04-18
		MST	Version 5	2004-11-09
Datum / date	Unterschrift / signature	MST	Version 4	2004-10-11
		SST	Version 3	2004-01-27
		AG	Version 2	2003-06-11
		JH	Neugestaltung	2000-12-06
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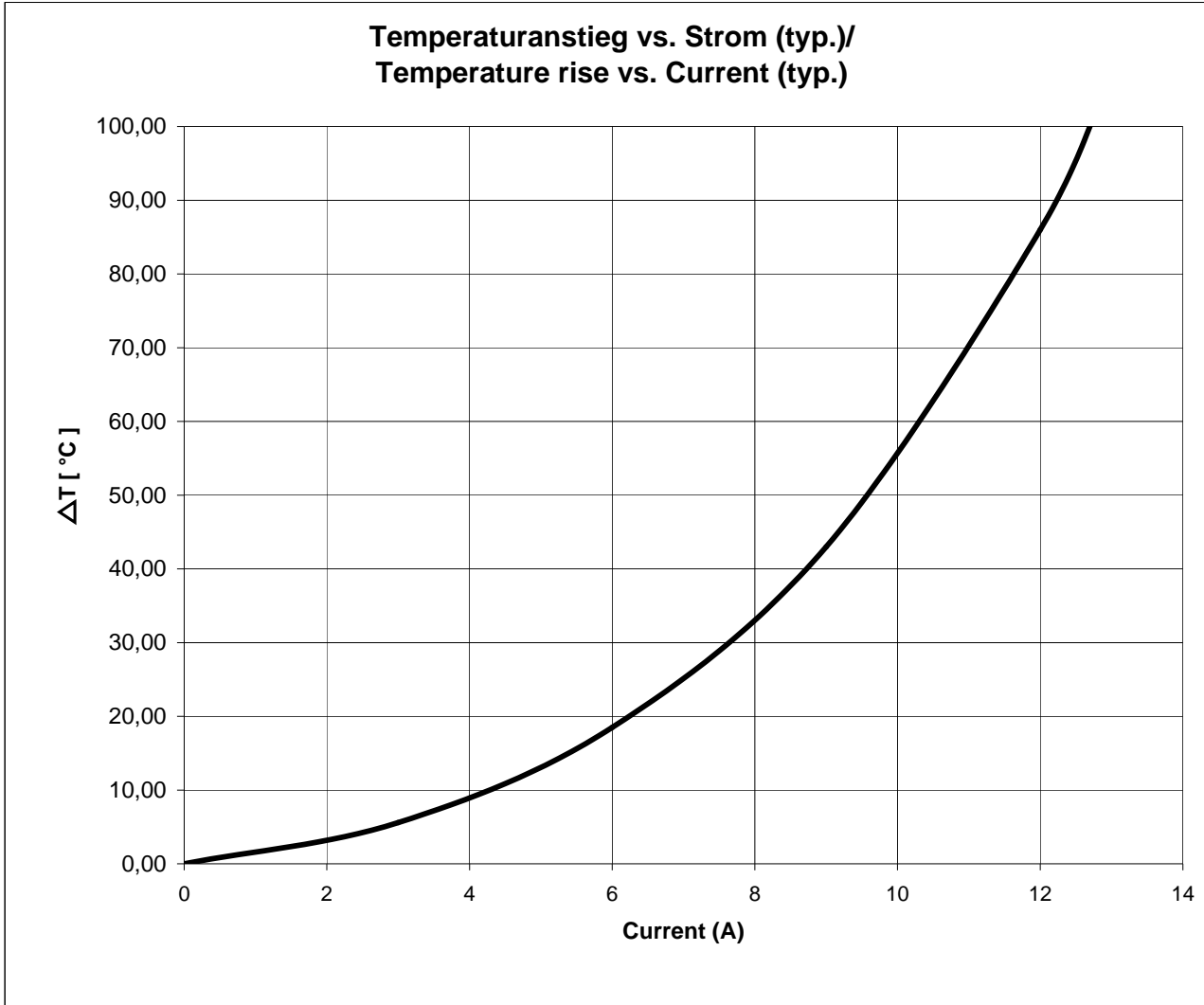
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I Temperaturanstieg / Temperature rise curve :



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		MST	Version 5	2004-11-09
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		Würth Elektronik		
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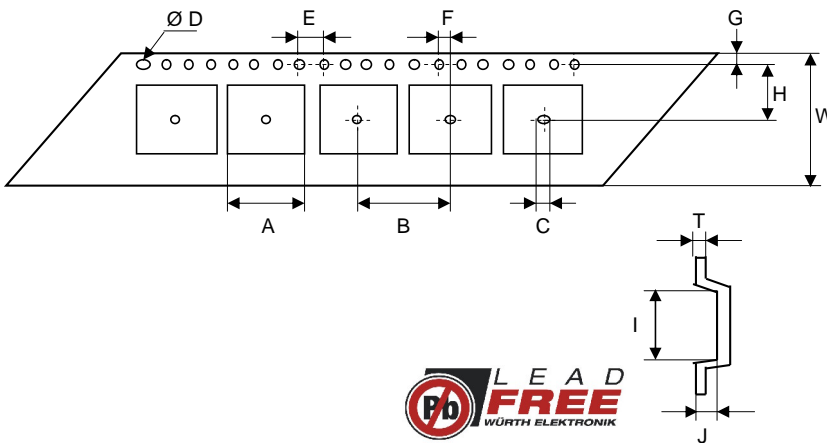


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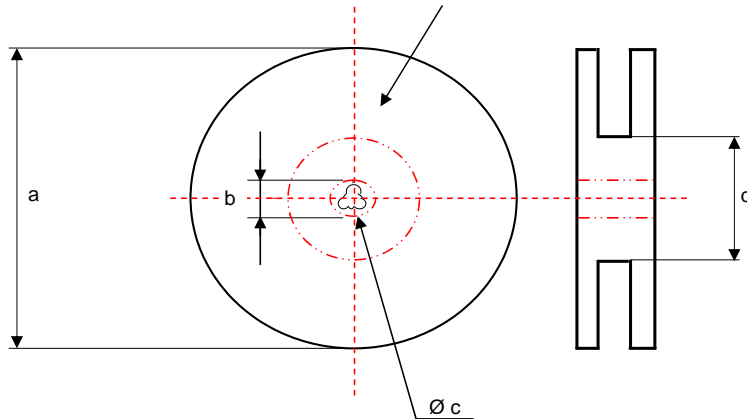
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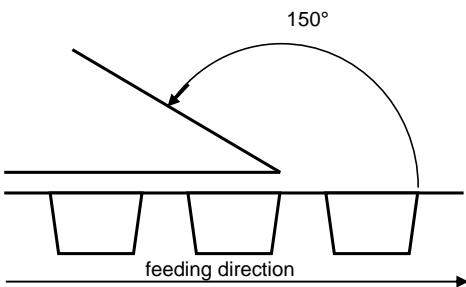
J Rollenspezifikation / tape and reel specification :



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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Kontrolliert / approved	Name		
		

ME	Version 6	05-04-18
MST	Version 5	04-11-09
MST	Version 4	04-10-11
SST	Version 3	04-01-27
AG	Version 2	03-06-11
JH	Neugestaltung	00-12-06
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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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