

Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number :

744894400082



Bezeichnung :

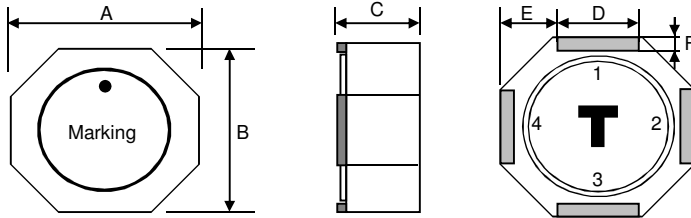
SPEICHERDROSSEL WE-TDC 8038

description :

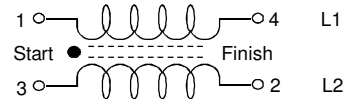
COUPLED INDUCTOR WE-TDC 8038

DATUM / DATE : 2010-08-31

A Mechanische Abmessungen / dimensions:



	8038	
A	8,0 ± 0,3	mm
B	8,0 ± 0,3	mm
C	3,8 ± 0,3	mm
D	3,2 typ.	mm
E	2,4 typ.	mm
F	1,0 typ.	mm

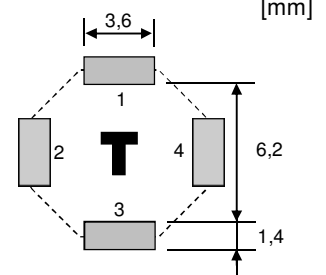


● start of winding

B Elektrische Eigenschaften / electrical properties:

C Lötpad / soldering spec.:

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Induktivität (je Wicklg.) / inductance (each wdg.)	100 kHz / 5mA	L_1, L_2	0,82	μH	+/-30%
DC-Widerstand (je Wicklg.) / DC-resistance (each wdg.)	@ 20°C	$R_{DC1,2 typ}$	15,9	mΩ	typ.
DC-Widerstand (je Wicklg.) / DC-resistance (each wdg.)	@ 20°C	$R_{DC1,2 max}$	20	mΩ	max.
Nennstrom (je Wicklg.) ⁽¹⁾ / rated Current (each wdg.) ⁽¹⁾	ΔT = 40 K	I_{N1}, I_{N2}	3,7	A	typ.
Sättigungsstrom (je Wicklg.) / saturation current (each wdg.)	ΔL/L < 10%	I_{sat}	9,6	A	typ.
Eigenres.-Frequenz / self-res.-frequency		SRF	140	MHz	typ.
Nennspannung / rated Voltage		U_{DC}	80	V	max.



⁽¹⁾ Stromfluss durch beide Wicklungen verursacht ΔT / both windings driven by rated current will occur ΔT

D Prüfgeräte / test equipment:

WAYNE KERR 3260B für/for L_0 ; I_{SAT}

Agilent N5776A für/for I_{DC}

GMC Metrahit 271 für/for R_{DC}

Agilent E4991A 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:	Class H
Endoberfläche / finishing electrode:	Ag/Ni/Sn

G Eigenschaften / general specifications:

Betriebstemp. / operating temperature: -40 °C - +125 °C
 Umgebungstemp. / ambient temperature: -40 °C - +85 °C
 It is recommended that the temperature of the part does not exceed 125 °C under worst case operating conditions.

Freigabe erteilt / general release:

Kunde / customer

Datum / date

Unterschrift / signature

Würth Elektronik

Geprüft / checked

Kontrolliert / approved

ALa

Version 1

10-08-31

Name

Änderung / modification

Datum / date

Würth Elektronik eiSos GmbH & Co. KG

D-74638 Waldenburg · Max-Eyth-Strasse 1 · Germany · Telefon (+49) (0) 7942 - 945 - 0 · Telefax (+49) (0) 7942 - 945 - 400
<http://www.we-online.de>

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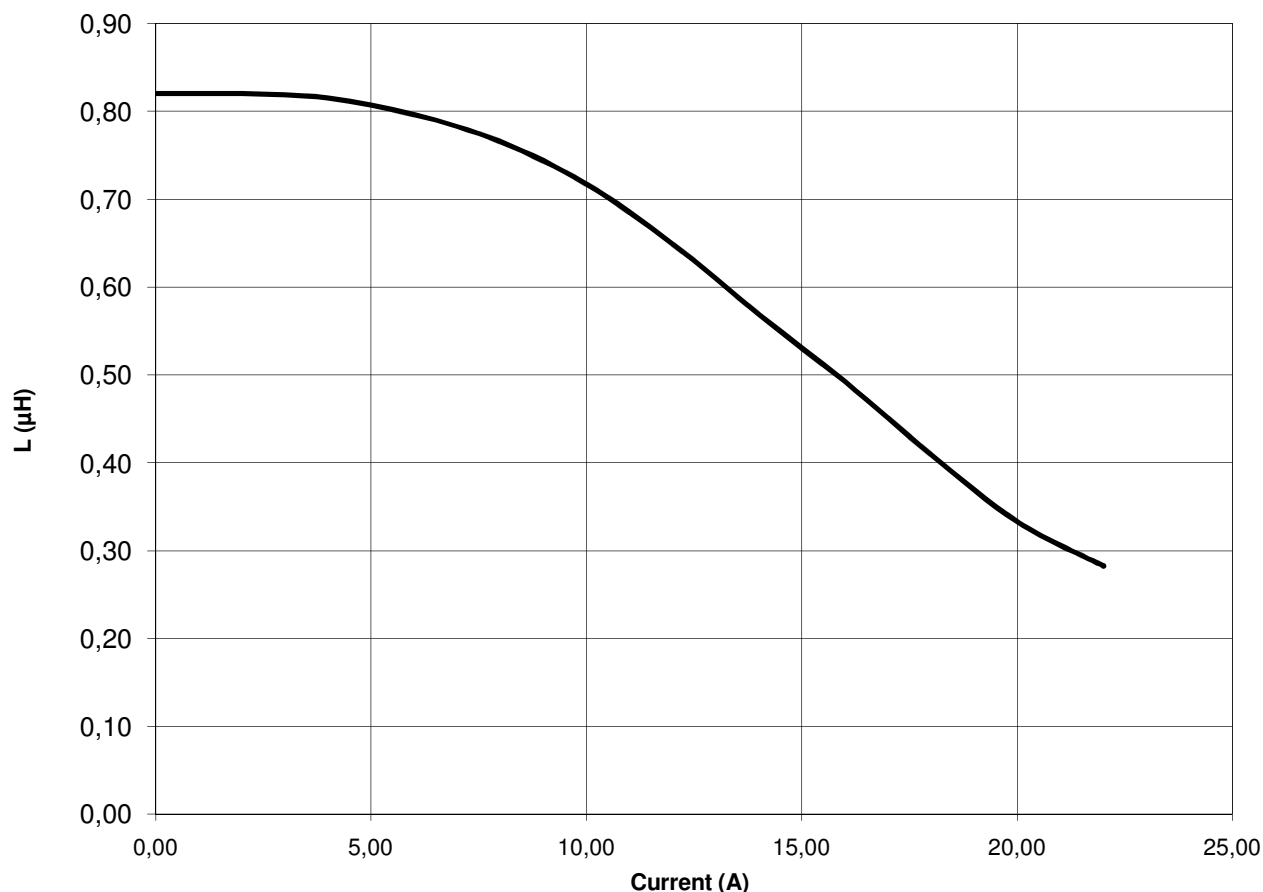
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H Induktivitätskurve / Inductance curve:

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



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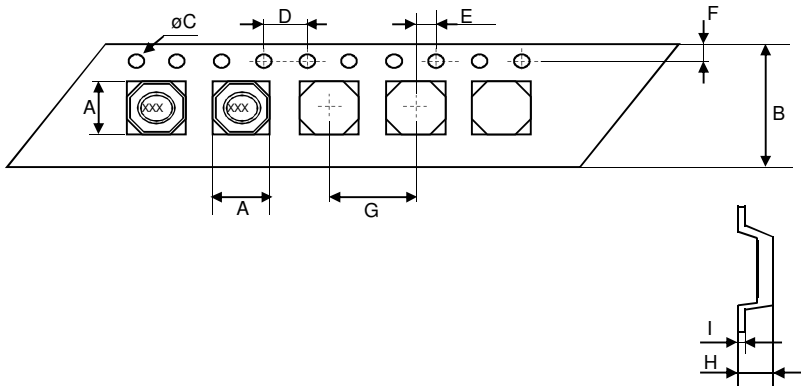
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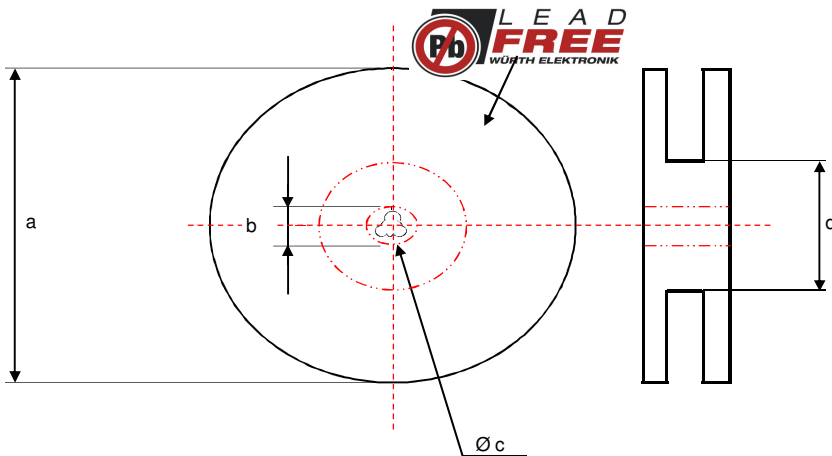
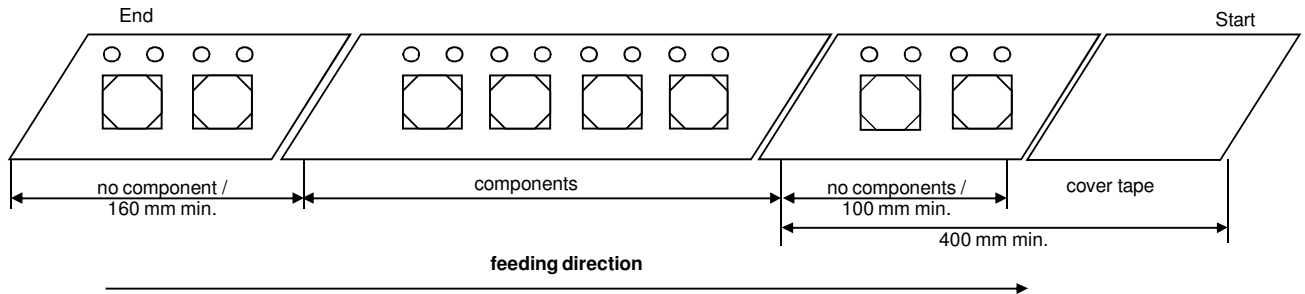
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I Rollenspezifikation / tape and reel specification:

Gurtspezifikation / Tape specification:



A	8,4 ± 0,1	mm
B	16,0 ± 0,3	mm
C	1,5 ± 0,1	mm
D	4,0 ± 0,1	mm
E	2,0 ± 0,1	mm
F	7,5 ± 0,1	mm
G	12,0 ± 0,1	mm
H	4,1 ± 0,1	mm
I	0,4 ± 0,05	mm



Rollenspezifikation / Reel specification:		
a	178,0 ± 2,0	mm
b	21,00 ± 0,8	mm
c	13,00 ± 0,5	mm
d	50,00 ± 1,0	mm

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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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