

# Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number :

744851221



Bezeichnung :

Ringkern-Doppeldrossel WE-DCT

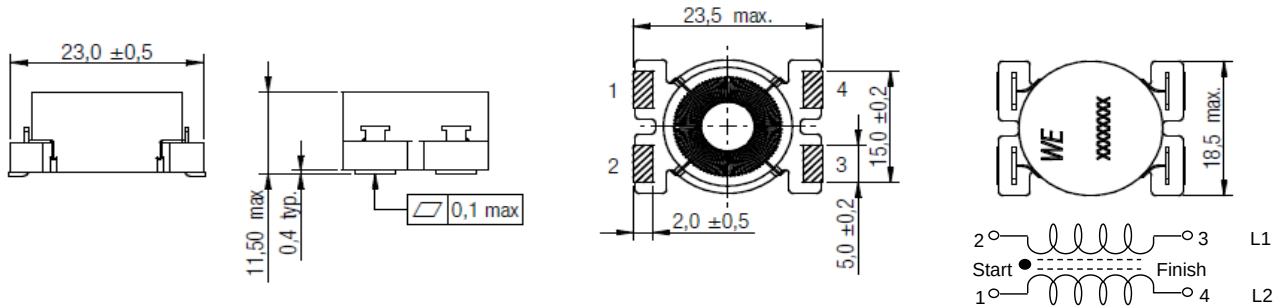
description :

Toroidal Double Power Choke WE-DCT

DATUM / DATE : 2011-02-24

## A Mechanische Abmessungen / dimensions:

Type SH



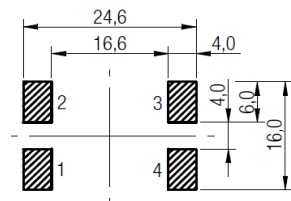
## B Elektrische Eigenschaften / electrical properties:

## C Lötpad / soldering spec.:

| Eigenschaften / properties                                                       | Testbedingungen / test conditions |                                   | Wert / value | Einheit / unit | tol.   |
|----------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|--------------|----------------|--------|
| Induktivität (je Wicklg.) / inductance (each wdg.)                               | 100 kHz / 5 mA                    | L <sub>1</sub> , L <sub>2</sub>   | 22,0         | μH             | +/-10% |
| DC-Widerstand (je Wicklg.) / DC-resistance (each wdg.)                           | @ 20°C                            | R <sub>DC1,2 typ</sub>            | 34,0         | mΩ             | typ.   |
| DC-Widerstand (je Wicklg.) / DC-resistance (each wdg.)                           | @ 20°C                            | R <sub>DC1,2 max</sub>            | 45,0         | mΩ             | max.   |
| Nennstrom (je Wicklg.) <sup>(1)</sup> / rated Current (each wdg.) <sup>(1)</sup> | ΔT = 40 K                         | I <sub>R1</sub> , I <sub>R2</sub> | 3,5          | A              | typ.   |
| Sättigungsstrom (je Wicklg.) / saturation current (each wdg.)                    | ΔL/L <sub>0</sub>  -30%           | I <sub>sat</sub>                  | 2,7          | A              | max.   |
| Eigenres.-Frequenz / self-res.-frequency                                         |                                   | f <sub>res</sub>                  | 16           | MHz            | typ.   |

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

[mm]



## D Prüfgeräte / test equipment:

WAYNE KERR 3260B für/for L; I<sub>sat</sub>

Dostmann T900 für/for I<sub>R1</sub>; I<sub>R2</sub>

GMC Metrahit 271 für/for R<sub>DC</sub>

Agilent E4991A für/for f<sub>res</sub>

## E Testbedingungen / test conditions:

Luftfeuchtigkeit / humidity: 33%

Umgebungstemperatur / temperature: +20°C

## F Werkstoffe & Zulassungen / material & approvals:

Gehäuse / housing: UL94 V-0  
 Draht / wire: Class F  
 Kleber / glue: UL94-HB  
 Kern / Core: 1S125 (WE-PERM)

## 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

CZ

Version 1

11-02-24

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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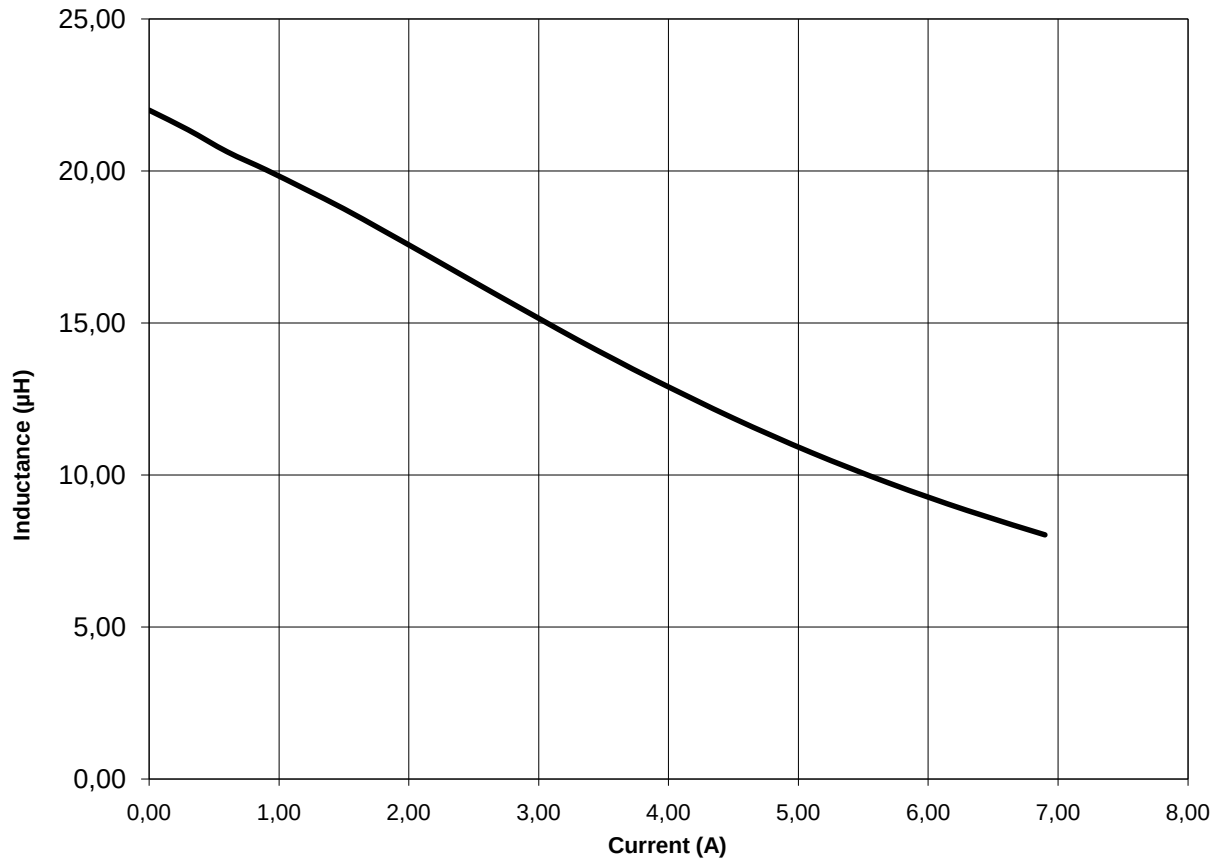
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## H Induktivitätskurve / Inductance curve:

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



|                                     |                          |  |      |                         |              |
|-------------------------------------|--------------------------|--|------|-------------------------|--------------|
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|                                     |                          |  |      |                         |              |
|                                     |                          |  |      |                         |              |
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|                                     | Würth Elektronik         |  |      |                         |              |
|                                     |                          |  |      |                         |              |
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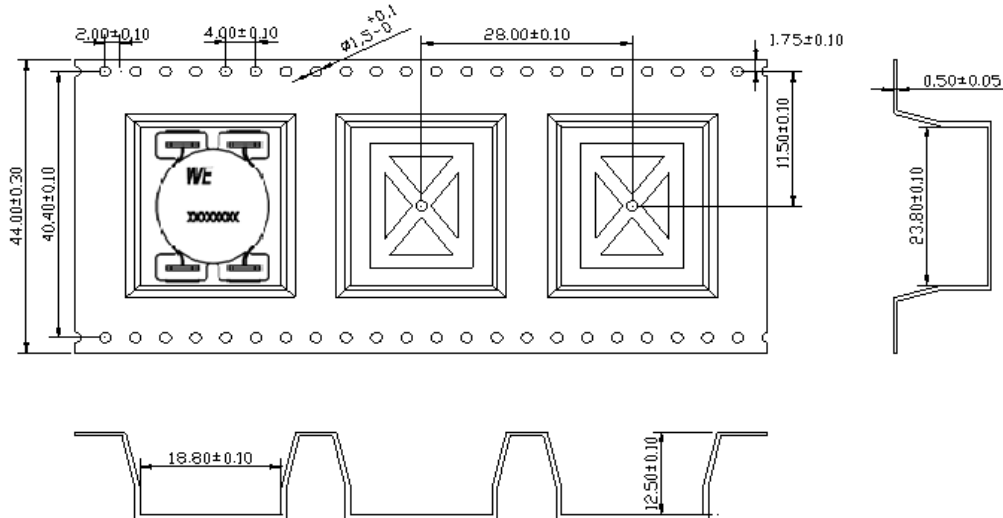
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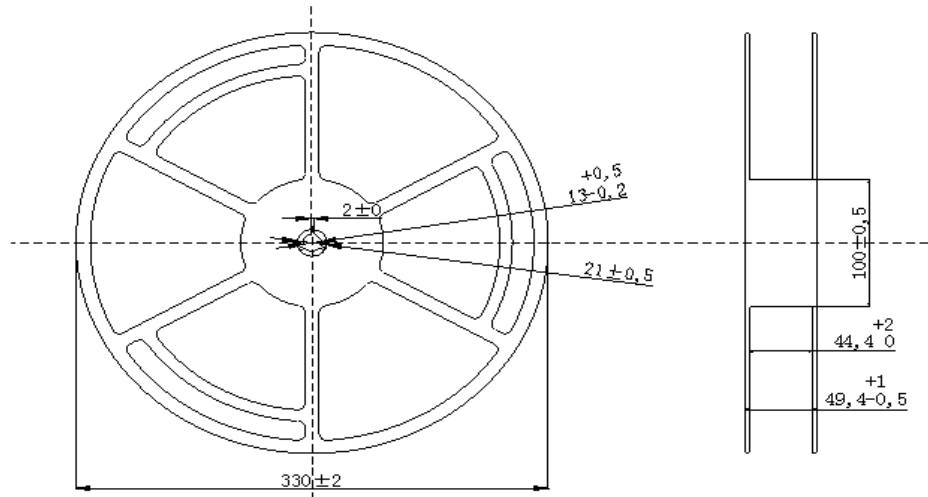
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J Rollenspezifikation / tape and reel specification:

Gurtspezifikation / Tape specification:



Rollenspezifikation / Reel specification:



|                                     |                          |      |                         |              |
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