

# Spezifikation für Freigabe / specification for release

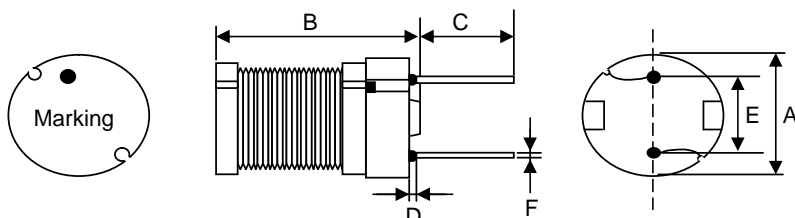
Kunde / customer :  
 Artikelnummer / part number : **744743221**  
 Bezeichnung : **Tonneninduktivität WE-TI**  
 description : **Filter Choke WE-TI**

LF



DATUM / DATE : 2004-11-30

## A Mechanische Abmessungen / dimensions:



|   | 7,8 X 12   |    |
|---|------------|----|
| A | 8,0 max.   | mm |
| B | 12,5 max.  | mm |
| C | 5,0 ± 1,0  | mm |
| D | 1,5 max.   | mm |
| E | 5,0 ± 0,5  | mm |
| F | ø 0,70 ref | mm |
|   |            |    |
|   |            |    |

● = Start of winding      Marking = Inductance code

## B Elektrische Eigenschaften / electrical properties:

| Eigenschaften / properties             | Testbedingungen / test conditions |                       | Wert / value | Einheit / unit | tol. |
|--|-----------------------------------|-----------------------|--------------|----------------|------|
| Leerlauf-Induktivität / inductance     | 1 kHz / 0,25V                     | $L_0$                 | 220,0        | μH             | ±10% |
| Nenn-Induktivität / nominal inductance | 1 kHz/0,25V/IN                    | $L_N$                 |              | μH             | typ. |
| DC-Widerstand / DC-resistance          | @20°C                             | $R_{DC \text{ max.}}$ | 0,55         | Ω              | max. |
| Nennstrom / nominal current            | ΔT=40 K                           | $I_N$                 | 0,96         | A              | max. |
| Sättigungsstrom / saturating current   | ΔL/L <sub>0</sub>  -10%           | $I_{sat}$             | 1,20         | A              | typ. |

## D Prüfgeräte / test equipment:

HP 4274 A & HP E3633 A für/for  $L_0$   
 HP 34401 A für/for  $I_N$  und/and  $R_{DC}$

## E Testbedingungen / test conditions:

Luftfeuchtigkeit / humidity: 33%  
 Umgebungstemperatur / temperature: +20°C

## F Werkstoffe & Zulassungen / material & approvals

Basismaterial / base material: Ferrit/ferrite  
 Draht / wire: 2-UEW 155°C

## G Eigenschaften / general specifications:

Lagertemperatur / storage temperature: -25°C - + 85°C  
 Betriebstemp. / operating temperature: -25°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

|      |                         |              |
|------|-------------------------|--------------|
|      |                         |              |
|      |                         |              |
|      |                         |              |
|      |                         |              |
| ME   | Version 3               | 04-11-30     |
| ME   | Version 2               | 04-11-05     |
| ME   | Version 1               | 04-08-10     |
| Name | Änderung / modification | Datum / date |

Würth Elektronik eiSos GmbH & Co.KG

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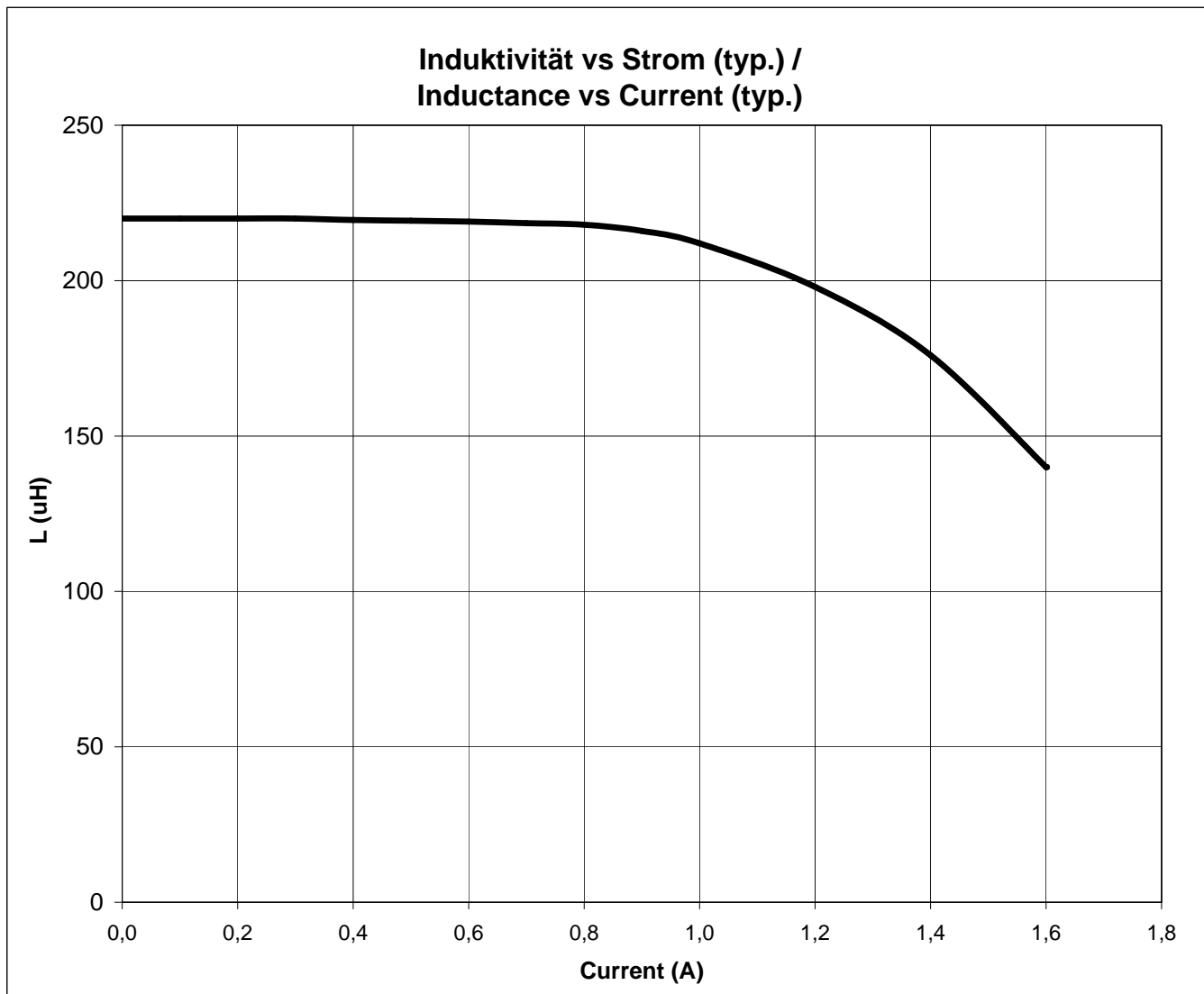
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## H Induktivitätskurve / Inductance curve :



|                                     |                  |                          |  |      |                         |
|-------------------------------------|------------------|--------------------------|--|------|-------------------------|
| Freigabe erteilt / general release: | Kunde / customer |                          |  |      |                         |
|                                     |                  |                          |  |      |                         |
|                                     |                  |                          |  |      |                         |
|                                     |                  |                          |  |      |                         |
| Datum / date                        |                  | Unterschrift / signature |  |      |                         |
|                                     |                  | Würth Elektronik         |  | ME   | Version 3               |
|                                     |                  |                          |  | ME   | Version 2               |
|                                     |                  |                          |  | ME   | Version 1               |
| Geprüft / checked                   |                  | Kontrolliert / approved  |  | Name | Änderung / modification |
|                                     |                  |                          |  |      | Datum / date            |

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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