

# Spezifikation für Freigabe / specification for release

Kunde / customer :

Artikelnummer / part number : **74479775222**

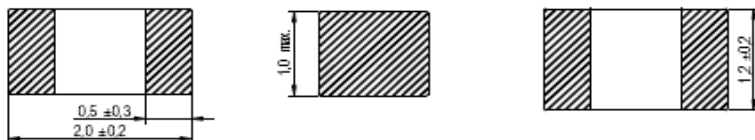
Bezeichnung : **SMD-Powerinduktivität WE-PMI**

description : **SMD-power inductance WE-PMI**



DATUM / DATE : 2010-10-20

## A Mechanische Abmessungen / dimensions:

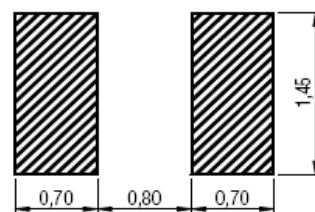


|   | Größe / size 0805 |    |
|---|-------------------|----|
| A | <b>2,0 ± 0,2</b>  | mm |
| B | <b>1,2 ± 0,2</b>  | mm |
| C | <b>1,0 ± 0,2</b>  | mm |
| D | <b>0,5 ± 0,2</b>  | mm |
|   |                   |    |
|   |                   |    |
|   |                   |    |

## B Elektrische Eigenschaften / electrical properties:

| Eigenschaften / properties               | Testbedingungen / test conditions |                  | Wert / value | Einheit / unit | tol. |
|------------------------------------------|-----------------------------------|------------------|--------------|----------------|------|
| Induktivität / inductance                | <b>1 MHz</b>                      | L                | <b>2,2</b>   | μH             | ±20% |
| Güte Q / Q factor                        | <b>1 MHz</b>                      | Q                | <b>10</b>    |                | min. |
| DC-Widerstand / DC-resistance            | <b>@ 20°C</b>                     | R <sub>DC</sub>  | <b>230</b>   | mΩ             | ±30% |
| Eigenres.-Frequenz / self-res.-frequency |                                   | SRF              | <b>70</b>    | MHz            | min. |
| Nennstrom / rated current                | <b>ΔT=20 K</b>                    | I <sub>DC</sub>  | <b>500</b>   | mA             | typ. |
| Nennstrom / rated current                | <b>ΔT=40 K</b>                    | I <sub>DC</sub>  | <b>700</b>   | mA             | typ. |
| Sättigungsstrom / saturation current     | <b> ΔL/L &lt;30%</b>              | I <sub>sat</sub> | <b>500</b>   | mA             | typ. |

## C Lötpad / soldering spec.:



## D Prüfgeräte / test equipment:

**Agilent E4991 A** für/for L und/and Q und/and SRF

**GMC Metrahit 27i** für/for R<sub>DC</sub>

**WK3260B** für/for I<sub>sat</sub>

**Agilent 6032** für/for I<sub>DC</sub>

## E Testbedingungen / test conditions:

Luftfeuchtigkeit / humidity: 33%

Umgebungstemperatur / temperature: +20°C

## F Werkstoffe & Zulassungen / material & approvals:

Basismaterial / base material: Ferrit / ferrite

## G Eigenschaften / general specifications:

Betriebstemp. / operating temperature: -40°C - + 85°C

It is recommended that the part isn't operated continuously beyond the rated current as it may cause excesses heating.

|                                     |                          |      |                         |              |
|-------------------------------------|--------------------------|------|-------------------------|--------------|
| Freigabe erteilt / general release: | Kunde / customer         |      |                         |              |
|                                     |                          |      |                         |              |
|                                     |                          |      |                         |              |
| Datum / date                        | Unterschrift / signature |      |                         |              |
|                                     | Würth Elektronik         |      |                         |              |
|                                     |                          |      |                         |              |
| Geprüft / checked                   | Kontrolliert / approved  | Mle  | Version 1               | 10-10-22     |
|                                     |                          | Name | Änderung / modification | Datum / date |

**Würth Elektronik eiSos GmbH & Co. KG**

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<http://www.we-online.com>

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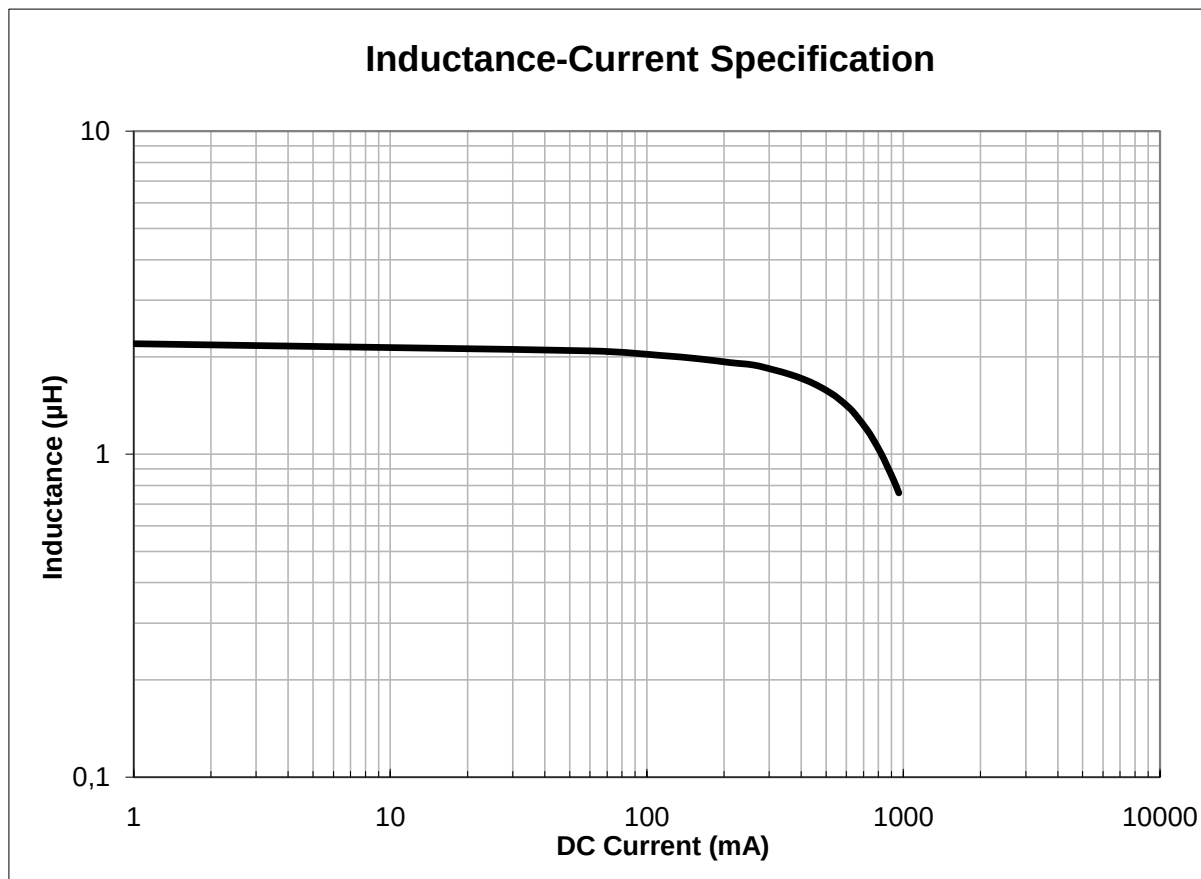
Bezeichnung : SMD-Powerinduktivität WE-PMI

description : SMD-power inductance WE-PMI



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## H Induktivitätskurve / Inductance curve :



|                                     |                          |      |                         |              |
|-------------------------------------|--------------------------|------|-------------------------|--------------|
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|                                     |                          |      |                         |              |
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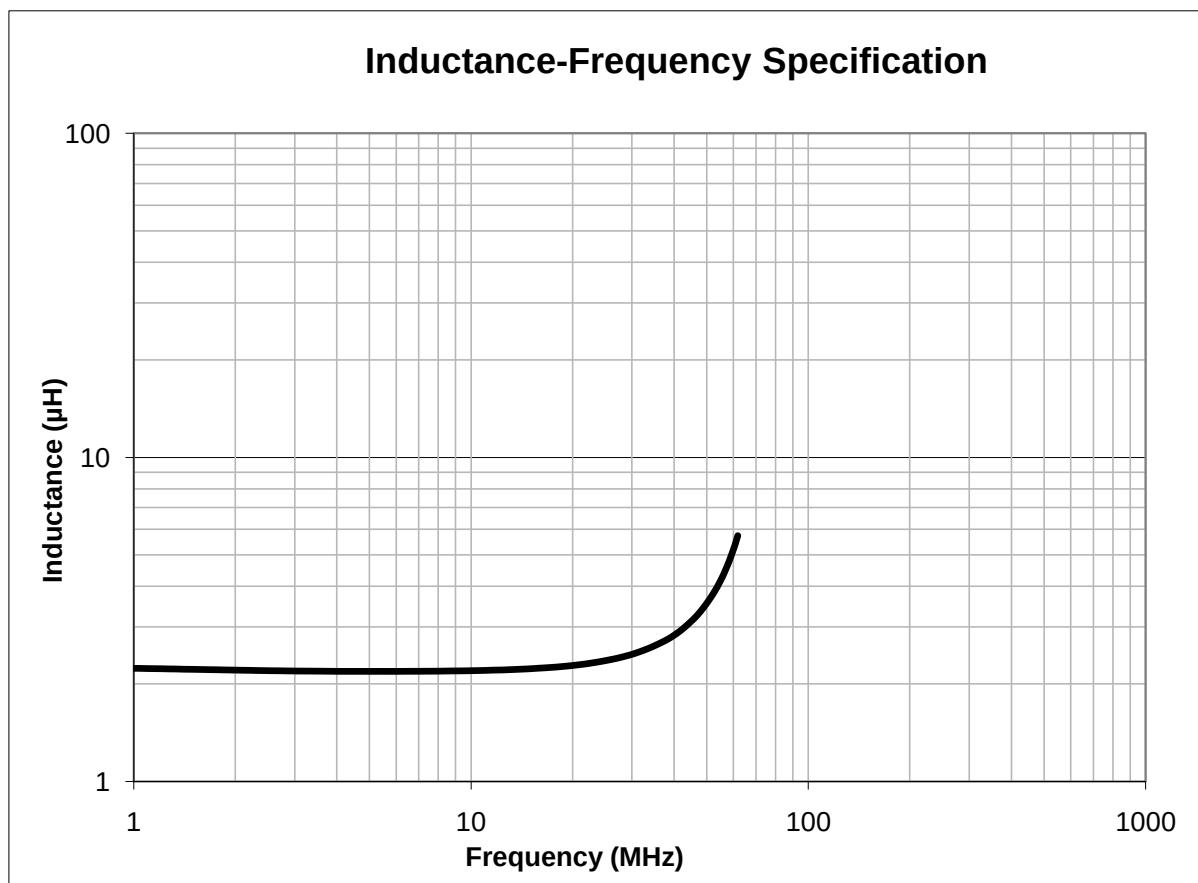
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## I Induktivitätskurve / Inductance curve :



|                                     |                          |                         |              |
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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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