

# Spezifikation für Freigabe / specification for release

Kunde / customer : \_\_\_\_\_

Artikelnummer / part number : **744902039**

LF

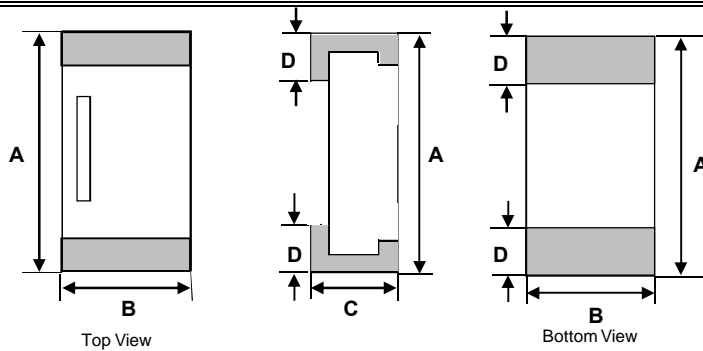


Bezeichnung : **Dünnsfilm-SMD-Induktivität WE-TCI**

description : **Thinfilm-Chip-Inductor WE-TCI**

DATUM / DATE : 2005-08-17

## A Mechanische Abmessungen / dimensions:

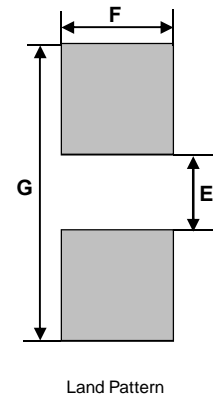


	Größe / size 0603	
A	<b>1,6 ± 0,1</b>	mm
B	<b>0,8 ± 0,1</b>	mm
C	<b>0,45 ± 0,1</b>	mm
D	<b>0,3 ± 0,2</b>	mm
E	<b>0,6 - 0,8</b>	mm
F	<b>0,8 - 0,9</b>	mm
G	<b>1,8 - 2,2</b>	mm

## B Elektrische Eigenschaften / electrical properties:

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Induktivität / inductance	<b>300 MHz</b>	L	<b>3,9</b>	nH	<b>± 0.1nH</b>
Güte Q / Q factor	<b>300 MHz</b>	Q	<b>15</b>		<b>min.</b>
Güte Q / Q factor	<b>300 MHz</b>	Q	<b>16,11</b>		<b>typ.</b>
DC-Widerstand / DC-resistance		R <sub>DC</sub>	<b>0,20</b>	Ω	<b>max.</b>
DC-Widerstand / DC-resistance		R <sub>DC</sub>	<b>0,17</b>	Ω	<b>typ.</b>
Nennstrom / rated current	<b>ΔT = 30 K</b>	I <sub>DC</sub>	<b>300</b>	mA	<b>max.</b>
Eigenres.-Frequenz / self-res.-frequency		SRF	<b>6</b>	GHz	<b>min.</b>

## C Lötpad / soldering spec.:



## D Prüfgeräte / test equipment:

**HP 4286A + 16196A** für/for L und/and Q/ RDC

**Agilent 8510 VNA** für/for SRF

## E Testbedingungen / test conditions:

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

## F Werkstoffe & Zulassungen/ material & approvals

Basismaterial / base material: Al<sub>2</sub>O<sub>3</sub>  
Terminal electrode: Sn + Ni  
Conductor: Cu

## G Eigenschaften / general specifications:

Umgebungstemp. / ambient temperature: -40°C ...+ 85°C  
Betriebstemp. / operating temperature: -40°C ...+ 125°C  
Lagerbedingungen / storage conditions: -10°C ...+ 40°C  
30 ... 70% RH

Freigabe erteilt / general release:	<b>Kunde / customer</b>		
.....			
Datum / date	Unterschrift / signature		
	<b>Würth Elektronik</b>		
	AWe	Version 2	05-08-17
	AWe	Version 1	04-10-11
Geprüft / checked	Name	Änderung / modification	Datum / date

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

D-74638 Waldenburg · Max-Eyth-Strasse 1 -3 · Germany · Telefon (+49) (0) 7942 - 945 - 0 · Telefax (+49) (0) 7942 - 945 - 400  
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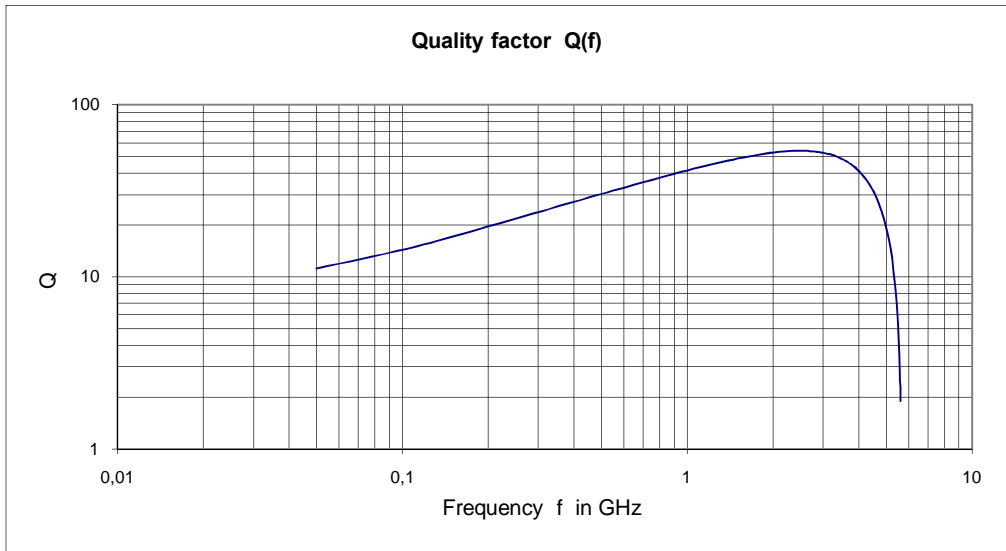
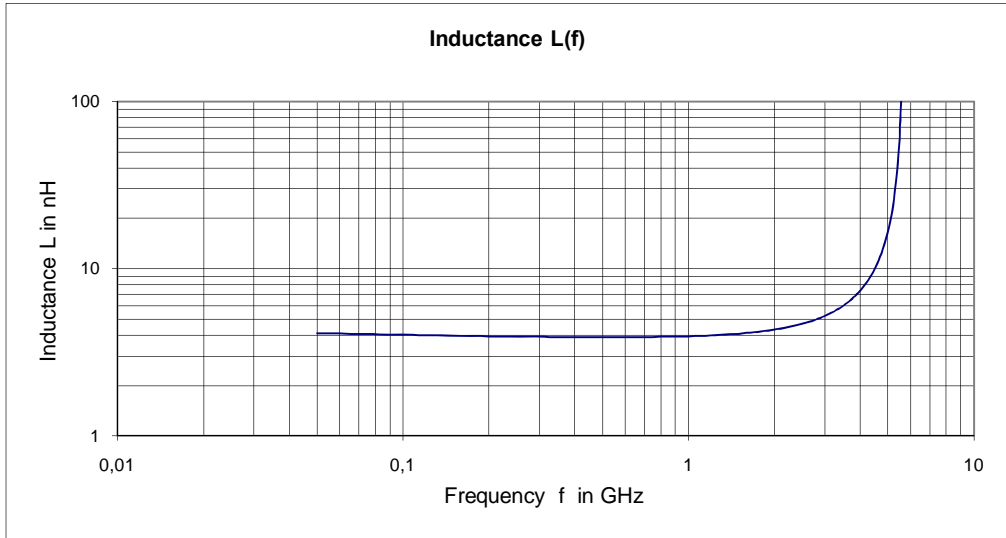
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## H Typical Frequency Characteristics



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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), 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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