



**Distributor of Würth Electronics Inc: Excellent Integrated System Limited**

Datasheet of 744902068 - FIXED IND 6.8NH 300MA 500 MOHM

Contact us: [sales@integrated-circuit.com](mailto:sales@integrated-circuit.com) Website: [www.integrated-circuit.com](http://www.integrated-circuit.com)

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## **Excellent Integrated System Limited**

Stocking Distributor

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[Würth Electronics Inc](#)  
[744902068](#)

For any questions, you can email us directly:

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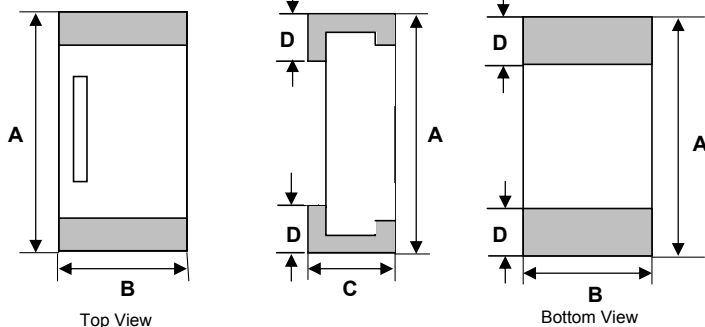
**Spezifikation für Freigabe / specification for release**

Kunde / customer : \_\_\_\_\_  
 Artikelnummer / part number : **744902068** LF  
 Bezeichnung : **Dünnsfilm-SMD-Induktivität WE-TCI**  
 description : **Thinfilm-Chip-Inductor WE-TCI**



DATUM / DATE : 2005-07-25

**A Mechanische Abmessungen / dimensions**

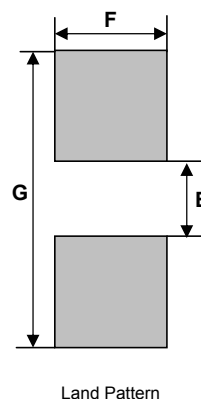


	Größe / size 0603	
A	1,6 ± 0,1	mm
B	0,8 ± 0,1	mm
C	0,45 ± 0,1	mm
D	0,3 ± 0,2	mm
E	0,4	mm
F	0,6	mm
G	1,4 - 1,5	mm

**B Elektrische Eigenschaften / electrical properties**

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Induktivität / inductance	300 MHz	L	6,8	nH	± 0.1nH
Güte Q / Q factor	300 MHz	Q	15		min.
Güte Q / Q factor	300 MHz	Q	19,90		typ.
DC-Widerstand / DC-resistance		R <sub>DC</sub>	0,50	Ω	max.
DC-Widerstand / DC-resistance		R <sub>DC</sub>	0,26	Ω	typ.
Nennstrom / rated current	ΔT = 30 K	I <sub>DC</sub>	300	mA	max.
Eigenres.-Frequenz / self-res.-frequency		SRF	5	GHz	min.

**C Lötpad / soldering spec.:**



**D Prüfgeräte / test equipment**

HP 4287A + 16196B für/for L und/and Q/ RDC  
 HP 8753D für/for SRF

**E Testbedingungen/ test conditions**

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

**F Werkstoffe & Zulassungen/ material & approvals**

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

**G Eigenschaften / general specifications:**

Umgebungstemp. / ambient temperature: -40°C ...+ 95°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>		
Geprüft / checked	Kontrolliert / approved		
	Name	Änderung / modification	Datum / date
	AWe	Version 2	05-07-25
	AWe	Version 1	04-10-11

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

**Spezifikation für Freigabe / specification for release**

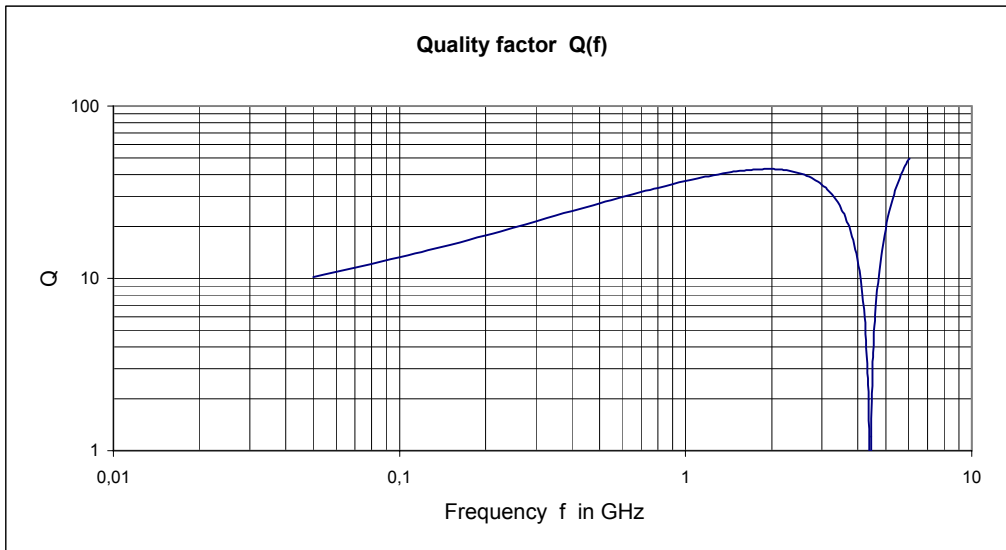
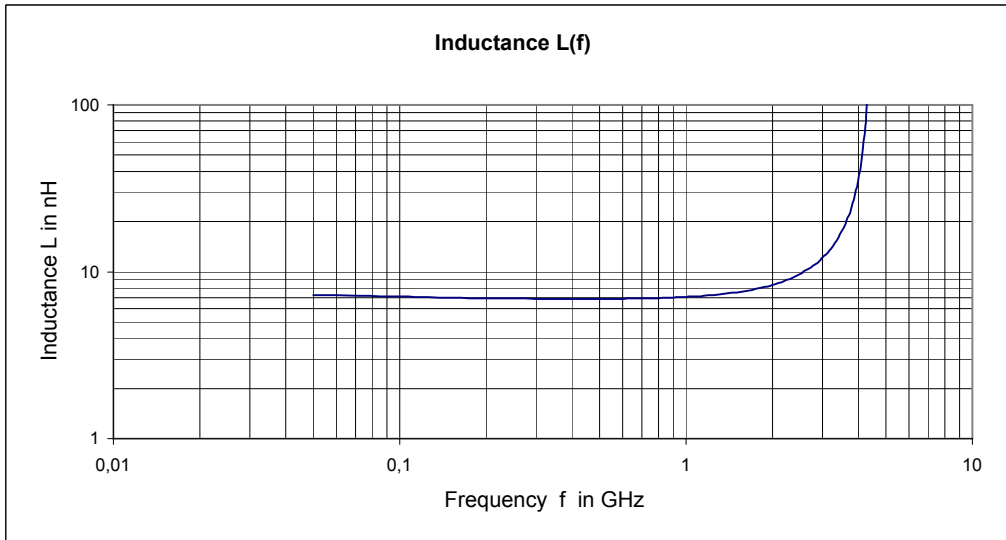
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**H Typical Frequency Characteristics**



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.....	.....	AWe	Version 2	05-07-25
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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 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 electrical 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.

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