

Spezifikation für Freigabe / specification for release

Kunde / customer : _____

Artikelnummer / part number : **744902039**

LF

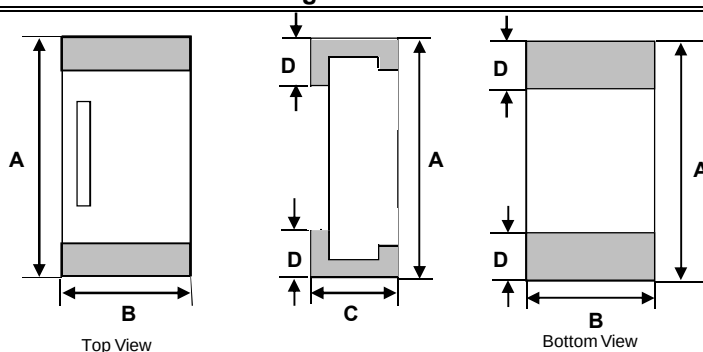


Bezeichnung : **Dünnsfilm-SMD-Induktivität WE-TCI**

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

DATUM / DATE : 2005-08-17

A Mechanische Abmessungen / dimensions:

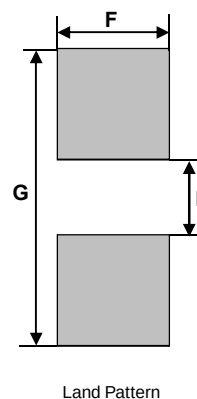


	Größe / size 0603	
A	1,6 ± 0,1	mm
B	0,8 ± 0,1	mm
C	0,45 ± 0,1	mm
D	0,3 ± 0,2	mm
E	0,6 - 0,8	mm
F	0,8 - 0,9	mm
G	1,8 - 2,2	mm

B Elektrische Eigenschaften / electrical properties:

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

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: **Al₂O₃**
 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:	Kunde / customer			
Datum / date	Unterschrift / signature			
	Würth Elektronik			
		AWe	Version 2	05-08-17
		AWe	Version 1	04-10-11
Geprüft / checked	Kontrolliert / approved	Name	Änderung / modification	Datum / date

Würth Elektronik eiSos GmbH & Co.KG

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

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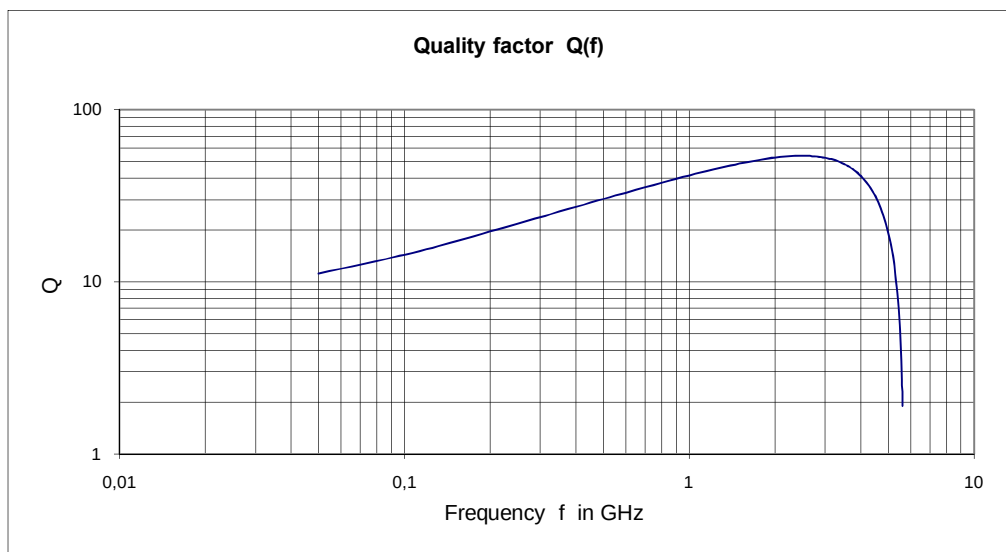
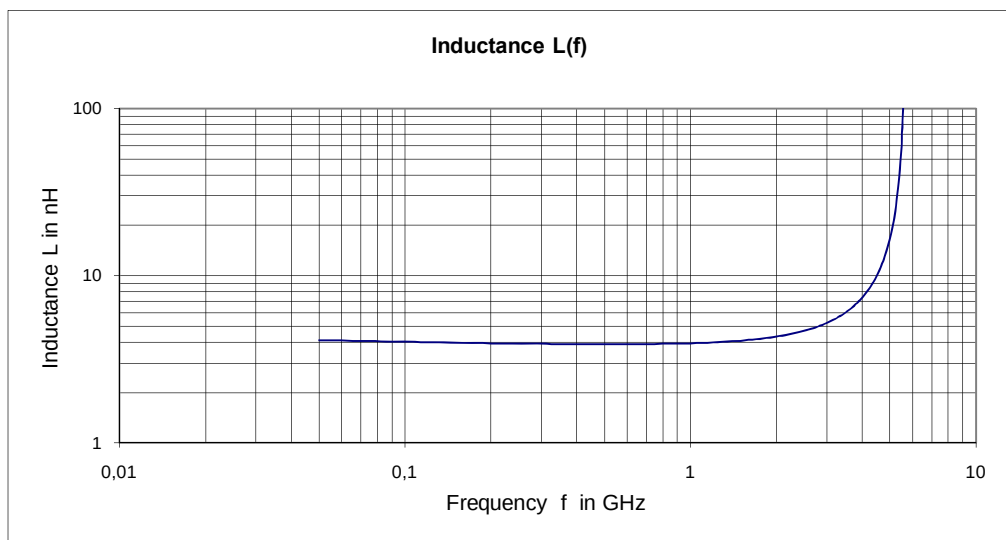


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H Typical Frequency Characteristics



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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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