Spezifikation für Freigabe / specification for release

Kunde / customer: _____

Artikelnummer / part number: **744901056** LF

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

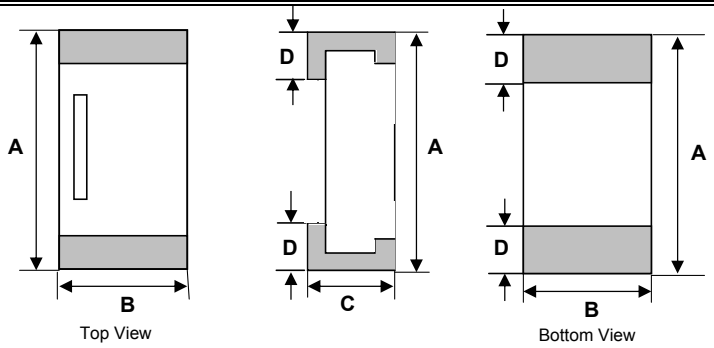
description : **Thinfilm-Chip-Inductor WE-TCI**

RoHS compliant

WÜRTH ELEKTRONIK

DATUM / DATE : 2005-08-17

A Mechanische Abmessungen / dimensions

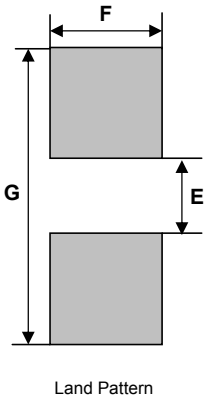


	Größe / size 0402	
A	1,0 ± 0,05	mm
B	0,5 ± 0,05	mm
C	0,32 ± 0,05	mm
D	0,2 ± 0,1	mm
E	0,4	mm
F	0,5 - 0,6	mm
G	1,4 - 1,5	mm

B Elektrische Eigenschaften / electrical properties

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Induktivität / inductance	**500 MHz**	L	**5,6**	nH	**± 0.1nH**
Güte Q / Q factor	**500 MHz**	Q	**13**		**min.**
Güte Q / Q factor	**500 MHz**	Q	**16,30**		**typ.**
DC-Widerstand / DC-resistance		R_{DC}	**0,70**	Ω	**max.**
DC-Widerstand / DC-resistance		R_{DC}	**0,38**	Ω	**typ.**
Nennstrom / rated current	**ΔT = 30 K**	I_{DC}	**280**	mA	**max.**
Eigenres.-Frequenz / self-res.-frequency		SRF	**6**	GHz	**min.**

C Lötpad / soldering spec.:



Land Pattern

D Prüfgeräte / test equipment

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

HP 8753D für/for SRF

E Testbedingungen/ test conditions:

Luftfeuchtigkeit / humidity: 33%

Umgebungstemperatur / temperature: +20°C

F Werkstoffe & Zulassungen/ material & approvals

Basismaterial / base material: Al_2O_3

Terminal electrode: Sn

Conductor: Ag + 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		
Geprüft / checked	Kontrolliert / approved	

AWe	Version 2	05-08-17
AWe	Version 1	04-10-11
Name	**Änderung / modification**	Datum / date

Würth Elektronik eiSos GmbH & Co.KG

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http://www.we-online.com

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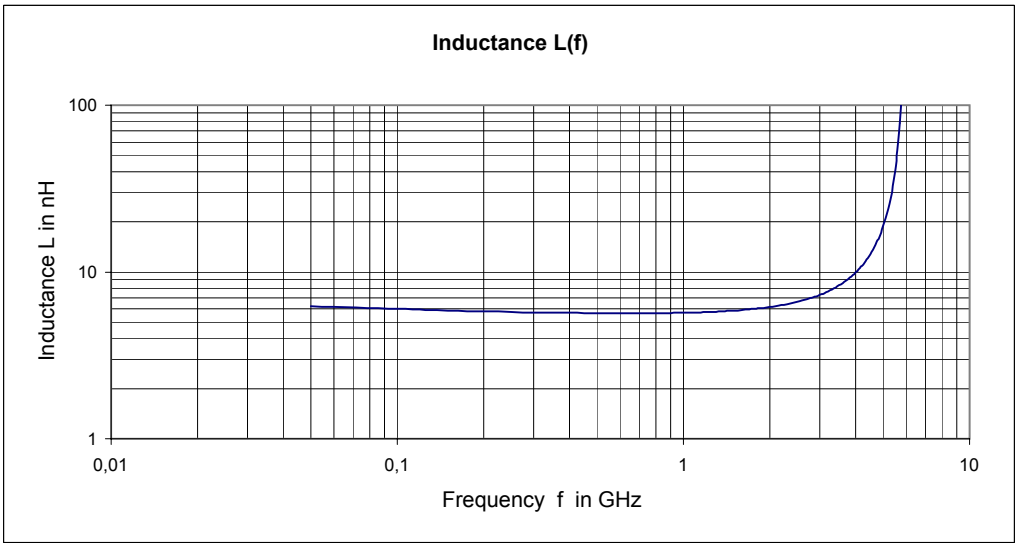
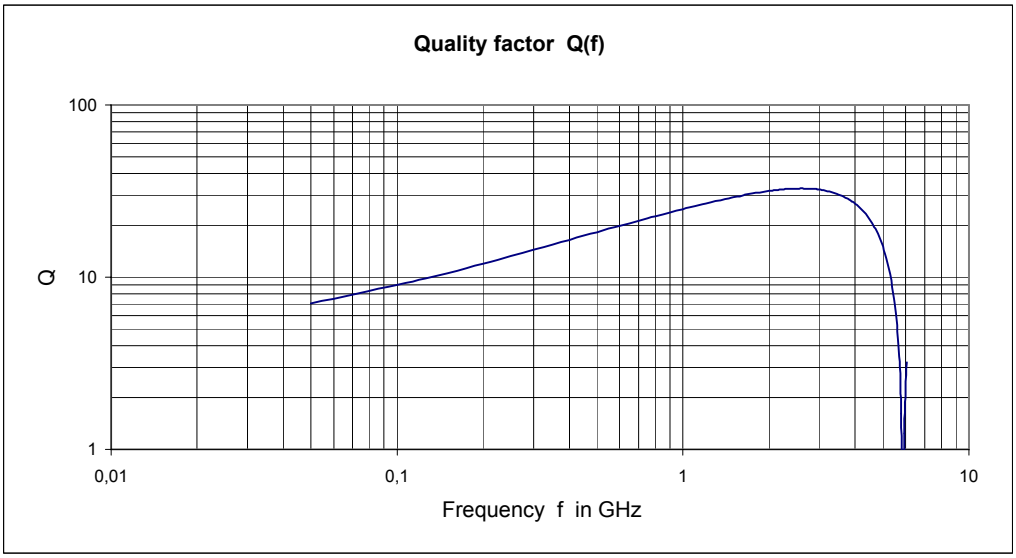
H Typical Frequency Characteristics





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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 electr 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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