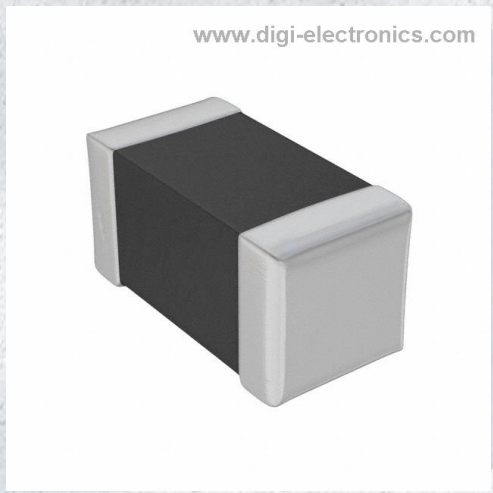
744902127 Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number	744902127-DG
Manufacturer	Würth Elektronik
Manufacturer Product Number	744902127
Description	FIXED IND 27NH 250MA 2 OHM SMD
Detailed Description	27 nH Unshielded Thin Film Inductor 250 mA 2Ohm Max 0603 (1608 Metric)

Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
744902127	Würth Elektronik
Series:	Product Status:
WE-TCI	Obsolete
Type:	Material - Core:
Thin Film	-
Inductance:	Tolerance:
27 nH	±2%
Current Rating (Amps):	Current - Saturation (Isat):
250 mA	-
Shielding:	DC Resistance (DCR):
Unshielded	2Ohm Max
Q @ Freq:	Frequency - Self Resonant:
15 @ 300MHz	2GHz
Ratings:	Operating Temperature:
-	-40°C ~ 125°C
Inductance Frequency - Test:	Mounting Type:
300 MHz	Surface Mount
Package / Case:	Supplier Device Package:
0603 (1608 Metric)	0603 (1608 Metric)
Size / Dimension:	Height - Seated (Max):
0.063" L x 0.031" W (1.60mm x 0.80mm)	0.022" (0.55mm)

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.8000	

Spezifikation für Freigabe / specification for release

Kunde / customer: _____

Artikelnummer / part number: **744902127** LF

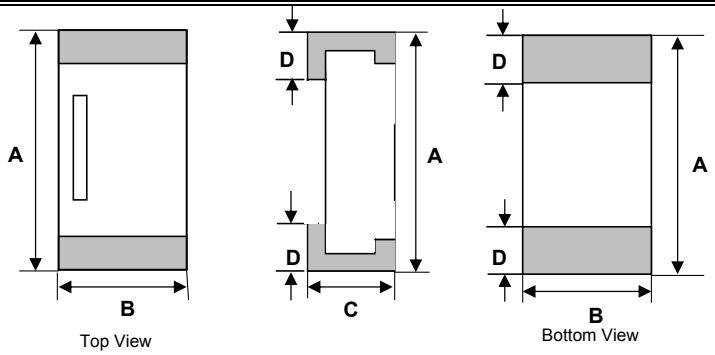
Bezeichnung : **Dünnfilm-SMD-Induktivität WE-TCI**

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

RoHS compliant

DATUM / DATE : 2005-07-25

A Mechanische Abmessungen / dimensions

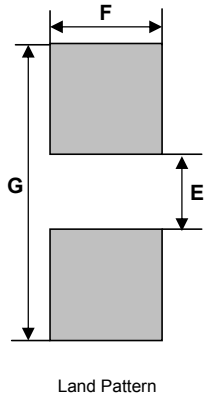


	Größe / size 0603	
A	1,6 ± 0,1	mm
B	0,8 ± 0,1	mm
C	0,45 ± 0,1	mm
D	0,3 ± 0,2	mm
E	0,4	mm
F	0,6	mm
G	1,4 - 1,5	mm

B Elektrische Eigenschaften / electrical properties

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Induktivität / inductance	**300 MHz**	L	**27,0**	nH	**± 2%**
Güte Q / Q factor	**300 MHz**	Q	**15**		**min.**
Güte Q / Q factor	**300 MHz**	Q	**25,13**		**typ.**
DC-Widerstand / DC-resistance		R_{DC}	**2,00**	Ω	**max.**
DC-Widerstand / DC-resistance		R_{DC}	**1,05**	Ω	**typ.**
Nennstrom / rated current	**ΔT = 30 K**	I_{DC}	**250**	mA	**max.**
Eigenres.-Frequenz / self-res.-frequency		SRF	**2**	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: 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:

Kunde / customer		
Datum / date	Unterschrift / signature	
Würth Elektronik		
Geprüft / checked	Kontrolliert / approved	

AWe	Version 2	05-07-25
AWe	Version 1	04-10-11
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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Spezifikation für Freigabe / specification for release

Kunde / customer: _____

Artikelnummer / part number: **744902127** LF

RoHS compliant

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

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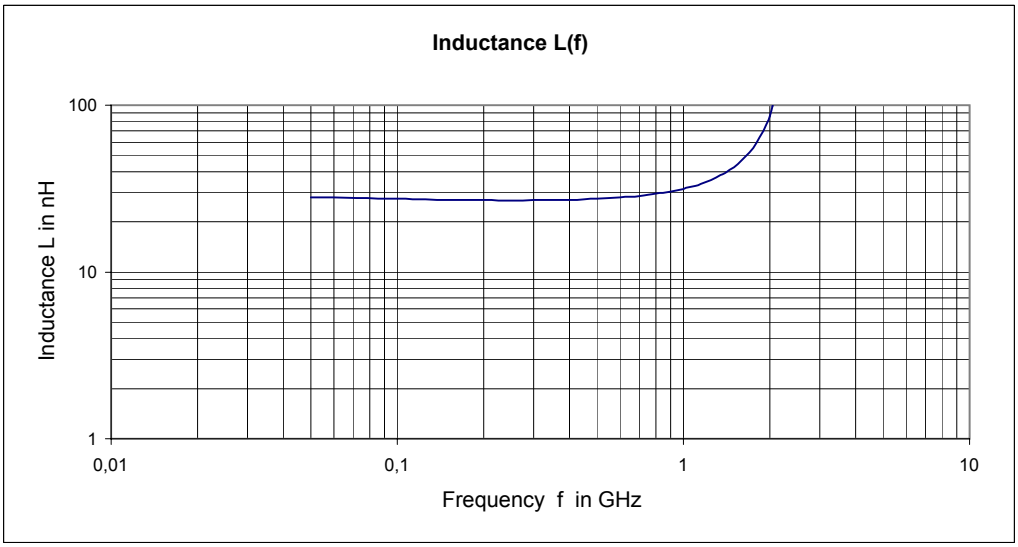
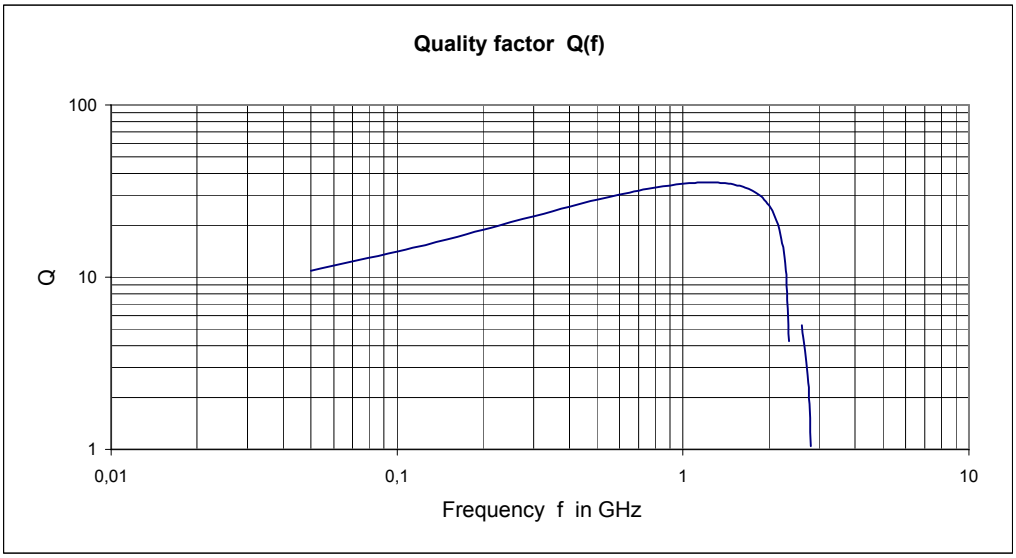
DATUM / DATE : 2005-07-25

H Typical Frequency Characteristics





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OUR CERTIFICATE

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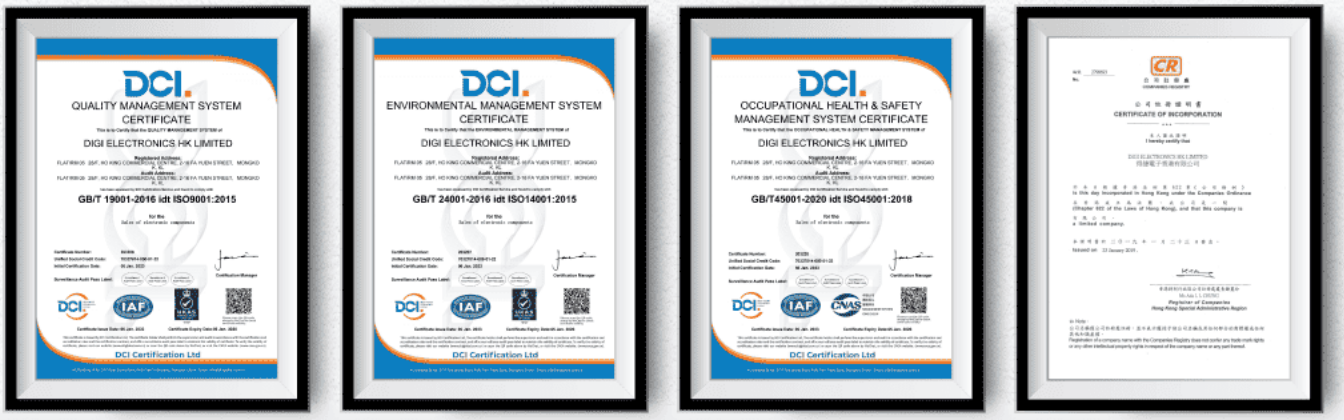

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DiGi is a global authorized distributor of electronic components.