Spezifikation für Freigabe / specification for release

Kunde / customer : _____

Artikelnummer / part number : **744784039** LF

Bezeichnung : **Multilayer-Keramik-SMD-Induktivität WE-MK**

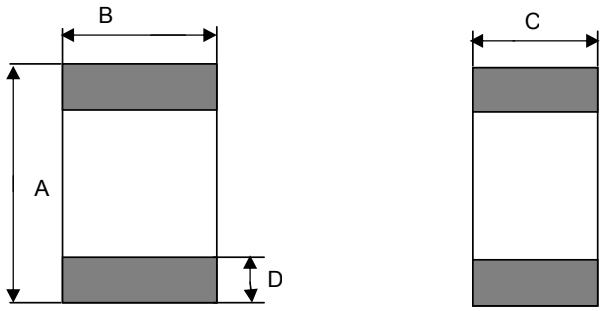
description : **Multilayer-Ceramic-SMD-Inductor WE-MK**

LEAD FREE WÜRTH ELEKTRONIK — *RoHS compliant*

WÜRTH ELEKTRONIK

DATUM / DATE : 2004-10-11

A Mechanische Abmessungen / dimensions:

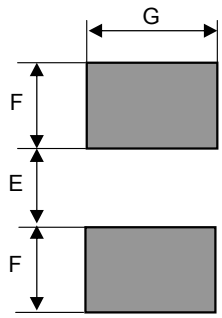


	Größe / size 0402	
A	**1,0 ± 0,10**	mm
B	**0,5 ± 0,10**	mm
C	**0,50 ± 0,10**	mm
D	**0,23 ± 0,1**	mm
E	**0,5 ± 0,1**	mm
F	**0,6 ± 0,1**	mm
G	**0,6 ± 0,1**	mm

B Elektrische Eigenschaften / electrical properties:

Eigenschaften / properties	Testbedingungen / test conditions		Wert / value	Einheit / unit	tol.
Induktivität / inductance	**100 MHz**	L	**3,9**	nH	**± 0,3nH**
Güte Q / Q factor	**100 MHz**	Q	**8**		**min.**
DC-Widerstand / DC-resistance		R_{DC}	**0,22**	Ω	**max.**
Nennstrom / rated current	**ΔT = 20 K**	I_{DC}	**300**	mA	**max.**
Eigenres.-Frequenz / self-res.-frequency		SRF	**7000**	MHz	**typ.**

C Lötpad / soldering spec.



D Prüfgeräte / test equipment:

HP 4291 B für/for L und/and Q

HP 4338 B für/for R_{DC}

HP 4284 A für/for I_{DC}

HP 8722 D für/for SRF

E Testbedingungen / test conditions:

Luftfeuchtigkeit / humidity: 33%

Umgebungstemperatur / temperature: +20°C

F Werkstoffe & Zulassungen / material & approvals

Basismaterial / base material: Keramik / ceramic

Kontaktmaterial / contact plating: Ag/ Ni/ Sn

G Eigenschaften / general specifications:

Umgebungstemp. / ambient temperature: -40°C ~ + 100°C

Betriebstemp. / operating temperature: -40°C ~ + 120°C

Lagerbedingungen / storage conditions: -10°C~ + 40°C

30 ~ 70% RH

Freigabe erteilt / general release:

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

Name	Änderung / modification	Datum / date
AWe	Version 1	04-10-11

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 etc. 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 electronic 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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