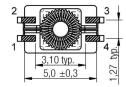
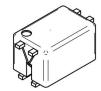
# A Dimensions: [mm]

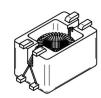






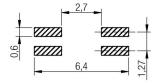






Scale - 4:1

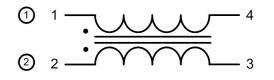
# B Recommended land pattern: [mm]



Scale 4:1

## .

C Schematic:





# **D Electrical Properties:**

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 100 mV	L	2x 100	μН	+50/-30%
Impedance	100 MHz	Z <sub>max</sub>	4000	Ω	typ.
Rated current	$\Delta T = 40 \text{ K}$	$I_{R}$	300	mA	max.
DC Resistance		$R_{DC}$	2x 0.58	Ω	max.
Insulation test voltage		U <sub>T</sub>	250	V (AC)	max.
Rated voltage		U <sub>R</sub>	80	V	

# **E** General information:

It is recommended that the temperature of the part does not exceed 125°C under worst case operating conditions.

Ambient temperature:  $-40^{\circ}$ C to  $+85^{\circ}$ C (refering to I<sub>R</sub>)

Operating temperature: -40°C to +125°C

Storage temperature (on tape & reel): -20°C to +40°C; 75% RH max.

Test conditions of Electrical Properties: 20°C, 33% RH

if not specified differently

l								
					Projection ,			
	4.5	2012-01-23	SSt	SBa				
	4.4	2012-12-05	SSt	SSt				
	4.3	2012-10-24	SSt	SBa	Würth Elektronik eiSos GmbH & Co. KG			
ĺ	4.2	2012-09-12	09-12 SSt SBa EMC & Inductive Solutions	EMC & Inductive Solutions Max-Eyth-Str. 1				
	4.1	2012-07-17	SSt	SSt	74638 Waldenburg			
ĺ	4.0	2012-07-17	SSt	SBa	Germany Tel. +49 (0) 79 42 945 - 0			
	3.0	2006-02-08 MST			www.we-online.com eiSos@we-online.com			
ľ				01150155	GIOOOSSWC OTHING.COM			

DESCRIPTION

# **WE-SLM SMD Common Mode Line Filter**

Order.- No.

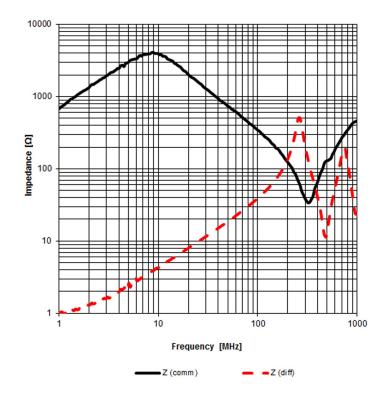
744242101

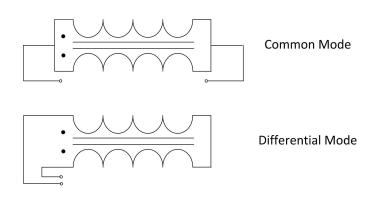


SIZE A4



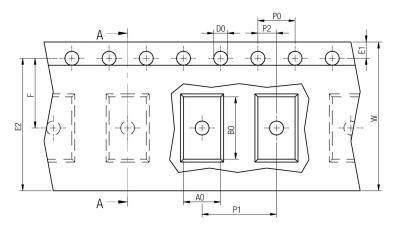
# **F Typical Impedance Characteristics:**

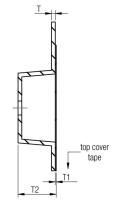




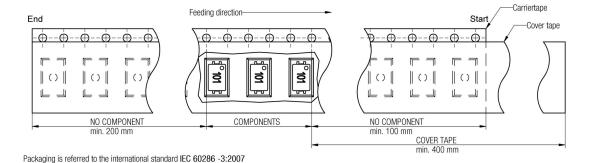
				Projection ,		DESCRIPTION				
4.5	2012-01-23	SSt	SBa	<del></del>						
4.4	2012-12-05	SSt	SSt			WE-SLM SMD C	ommon Mode Line Fil	ter		
4.3	2012-10-24	SSt	SBa	Würth Elektronik eiSos Gmbl	H & Co. KG					
4.2	2012-09-12	SSt	SBa	EMC & Inductive Solutions Max-Eyth-Str. 1						
4.1	2012-07-17	SSt	SSt	74638 Waldenburg		Order No.	COMPLIANT	SIZE		
4.0	2012-07-17	SSt	SBa	Germany Tel. +49 (0) 79 42 945 - 0		<b>744040404</b>	ROHS&REACH	OIZE		
3.0	2006-02-08	MST		www.we-online.com eiSos@we-online.com		744242101	TOWN ELEKTRONIK	A4		
REV	DATE	BY	CHECKED	CIOCOSSIVE GIIIIIG.COIII						

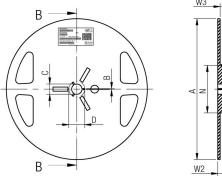
# **G Packaging Specification: [mm]**





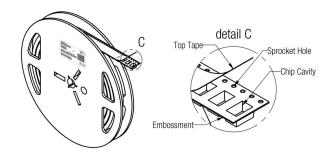
		Α0	В0	w	P1	т	T1	Т2	D0	E1	E2	F	P0	P2	Tape	VPE / packaging unit
	tolerance	typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,1 -0,0	± 0,1	min.	± 0,05	± 0,1	± 0,05		
size	744242xx	4,00	6,70	16,00	8,00	0,40	0,10	4,00	1,50	1,75	14,25	7,50	4,00	2,00	Polystyrene	500

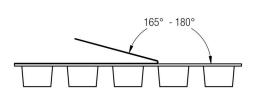




W2
----

		Α	В	С	D	N	W1	W2	W3	W3
tolerance		± 2,0	min.	± 0,8	min.	min.	+ 1,5	max.	min.	max.
Tape width	16 mm	178,00	1,50	13,00	20,20	100,00	16,40	22,40	15,90	19,40





Pull-of force Tape width | 16 mm | 0,1 N - 1,3 N

					Projection ,
	4.5	2012-01-23	SSt	SBa	110
	4.4	2012-12-05	SSt	SSt	
	4.3	2012-10-24	SSt	SBa	Würth Elektronik eiSos
	4.2	2012-09-12	SSt	SBa	EMC & Inductive Solution Max-Eyth-Str. 1
	4.1	2012-07-17	SSt	SSt	74638 Waldenburg
	4.0	2012-07-17	SSt	SBa	Germany Tel. +49 (0) 79 42 945
e	3.0	2006-02-08	MST		www.we-online.com eiSos@we-online.com
•	REV	DATE	BY	CHECKED	CIOOSSWC OIIIIIC.COIII

Projection

Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com

DESCRIPTION

# **WE-SLM SMD Common Mode Line Filter**

Order.- No.

744242101



SIZE A4

# **H Soldering Specifications:**



# **H1: Classification Reflow Profile for SMT components:**



## **H2: Classification Reflow Profiles**

Profile Feature	Pb-Free Assembly			
Preheat				
- Temperature Min (T <sub>smin</sub> )	150°C			
- Temperature Max (T <sub>smax</sub> )	200°C			
- Time (t <sub>s</sub> ) from (T <sub>smin</sub> to T <sub>smax</sub> )	60-180 seconds			
Ramp-up rate (T <sub>L</sub> to T <sub>P</sub> )	3°C/ second max.			
Liquidous temperature (T <sub>I</sub> )	217°C			
Time $(t_L)$ maintained above $T_L$	60-150 seconds			
Peak package body temperature (Tp)	See Table H3			
Time within 5°C of actual peak temperature (tp)	20-30 seconds			
Ramp-down rate (T <sub>P</sub> to T <sub>L</sub> )	6°C/ second max.			
Time 25°C to peak temperature	8 minutes max.			

refer to IPC/JEDEC J-STD-020D

## **H3: Package Classification Reflow Temperature**

	Package Thickness	Volume mm³ <350	Volume mm³ 350 - 2000	Volume mm³ >2000
PB-Free Assembly	< 1.6 mm	260°C	260°C	260°C
PB-Free Assembly	1.6 - 2.5 mm	260°C	250°C	245°C
PB-Free Assembly	≥ 2.5 mm	250°C	245°C	245°C

refer to IPC/JEDEC J-STD-020D

				Projection ,	DESCRIPTION	
4.5	2012-01-23	SSt	SBa			
4.4	2012-12-05	SSt	SSt		WE-SLM SMD Common Mode Line Filte	er
4.3	2012-10-24	SSt	SBa	Würth Elektronik eiSos GmbH		
4.2	2012-09-12	SSt	SBa	EMC & Inductive Solutions Max-Eyth-Str. 1		
4.1	2012-07-17	SSt	SSt	74638 Waldenburg	Order No.	SI7F
4.0	2012-07-17	SSt	SBa	Germany Tel. +49 (0) 79 42 945 - 0	ROHS&REACH WÜRTH ELEKTRONIK	OIZL
3.0	2006-02-08	MST		www.we-online.com eiSos@we-online.com	744242101 WÜRTH ELEKTRONIK	A4
REV	DATE	BY	CHECKED	- GIOUSSWE-UIIIIIE.CUIII		

## **I Cautions and Warnings:**

# The following conditions apply to all goods within the product series of WE-SLM of Würth Elektronik eiSos GmbH & Co. KG:

### General:

All recommendations according to the general technical specifications of the data sheet have to be complied with.

The disposal and operation of the product within ambient conditions which probably alloy or harm the wire isolation has to be avoided.

If the product is potted in customer applications, the potting material might shrink during and after hardening. Accordingly to this the product is exposed to the pressure of the potting material with the effect that the core, wire and termination is possibly damaged by this pressure and so the electrical as well as the mechanical characteristics are endanger to be affected. After the potting material is cured, the core, wire and termination of the product have to be checked if any reduced electrical or mechanical functions or destructions have occurred.

The responsibility for the applicability of customer specific products and use in a particular customer design is always within the authority of the customer. All technical specifications for standard products do also apply for customer specific products.

Cleaning agents that are used to clean application might damage or change the characteristics of the component, body or termination.

Direct mechanical impact to the product shall be prevented as the ferrite material of the core could flake or in the worst case it could break.

### Product specific:

Follow all instructions mentioned in the datasheet, especially:

- The soldering profile has to be complied with according to the technical reflow soldering specification, otherwise no warranty will be sustained
- •All products are supposed to be used before the end of the period of 12 months based on the transfer of title, if not a 100% solderability can't be warranted.
- . Violation of the technical product specifications such as exceeding the nominal rated current will result in the loss of warranty.



				Projection .		DESCRIPTION			
4.5	2012-01-23	SSt	SBa	<del></del>					
4.4	2012-12-05	SSt	SSt	9		WE-SLM SMD 0	Common Mode Line Fil	lter	
4.3	2012-10-24	SSt	SBa	Würth Elektronik eiSos Gmbl	H & Co. KG				
4.2	2012-09-12	SSt	SBa	EMC & Inductive Solutions Max-Eyth-Str. 1					
4.1	2012-07-17	SSt	SSt	74638 Waldenburg		Order No.	COMPLIANT	SIZE	
4.0	2012-07-17	SSt	SBa	Germany Tel. +49 (0) 79 42 945 - 0		<b>=</b> 44040404	ROHS&REACH	OIZE	
3.0	2006-02-08	MST		www.we-online.com eiSos@we-online.com		744242101	TOTAL ELEKTRONIK	A4	
REV	DATE	BY	CHECKED	GIOOSSWC OIIIIIG.COIII					

## **J Important Notes:**

# The following conditions apply to all goods within the product range of Würth Elektronik eiSos GmbH & Co. KG:

## 1. General Customer Responsibility

Some goods within the product range of Würth Elektronik eiSos GmbH & Co. KG contain statements regarding general suitability for certain application areas. These statements about suitability are based on our knowledge and experience of typical requirements concerning the areas, serve as general guidance and cannot be estimated as binding statements about the suitability for a customer application. The responsibility for the applicability and use in a particular customer design is always solely within the authority of the customer. Due to this fact it is up to the customer to evaluate, where appropriate to investigate and decide whether the device with the specific product characteristics described in the product specification is valid and suitable for the respective customer application or not.

### 2. Customer Responsibility related to Specific, in particular Safety-Relevant Applications

It has to be clearly pointed out that the possibility of a malfunction of electronic components or failure before the end of the usual lifetime cannot be completely eliminated in the current state of the art, even if the products are operated within the range of the specifications.

In certain customer applications requiring a very high level of safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health it must be ensured by most advanced technological aid of suitable design of the customer application that no injury or damage is caused to third parties in the event of malfunction or failure of an electronic component.

Therefore, customer is cautioned to verify that data sheets are current before placing orders. The current data sheets can be downloaded at www.we-online.com.

#### 3. Best Care and Attention

Any product-specific notes, cautions and warnings must be strictly observed. Any disregard will result in the loss of warranty.

### 4. Customer Support for Product Specifications

Some products within the product range may contain substances which are subject to restrictions in certain jurisdictions in order to serve specific technical requirements. Necessary information is available on request. In this case the field sales engineer or the internal sales person in charge should be contacted who will be happy to support in this matter.

#### 5. Product R&D

Due to constant product improvement product specifications may change from time to time. As a standard reporting procedure of the Product Change Notification (PCN) according to the JEDEC-Standard inform about minor and major changes. In case of further queries regarding the PCN, the field sales engineer or the internal sales person in charge should be contacted. The basic responsibility of the customer as per Section 1 and 2 remains unaffected.



## 6. Product Life Cycle

Due to technical progress and economical evaluation we also reserve the right to discontinue production and delivery of products. As a standard reporting procedure of the Product Termination Notification (PTN) according to the JEDEC-Standard we will inform at an early stage about inevitable product discontinuance. According to this we cannot guarantee that all products within our product range will always be available. Therefore it needs to be verified with the field sales engineer or the internal sales person in charge about the current product availability expectancy before or when the product for application design-in disposal is considered.

The approach named above does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.

#### 7. Property Rights

All the rights for contractual products produced by Würth Elektronik eiSos GmbH & Co. KG on the basis of ideas, development contracts as well as models or templates that are subject to copyright, patent or commercial protection supplied to the customer will remain with Würth Elektronik eiSos GmbH & Co. KG.

Würth Elektronik eiSos GmbH & Co. KG does not warrant or represent that any license, either expressed or implied, is granted under any patent right, copyright, mask work right, or other intellectual property right relating to any combination, application, or process in which Würth Elektronik eiSos GmbH & Co. KG components or services are used.

#### 8. General Terms and Conditions

Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms and Conditions of Würth Elektronik eiSos Group", last version available at www.we-online.com.

				Projection ,	DESCRIPTION
4.5	2012-01-23	SSt	SBa		
4.4	2012-12-05	SSt	SSt		WE-SLM SMD Common Mode Line Filter
4.3	2012-10-24	SSt	SBa	Würth Elektronik eiSos GmbH	
4.2	2012-09-12	SSt	SBa	EMC & Inductive Solutions Max-Eyth-Str. 1	
4.1	2012-07-17	SSt	SSt	74638 Waldenburg	Order No.
4.0	2012-07-17	SSt	SBa	Germany Tel. +49 (0) 79 42 945 - 0	RoHS&REACh
3.0	2006-02-08	MST		www.we-online.com eiSos@we-online.com	744242101 WÜRTH ELEKTRONIK A4
			011501550	eiooo@we-orillile.com	



# **ПОСТАВКА** ЭЛЕКТРОННЫХ КОМПОНЕНТОВ

Общество с ограниченной ответственностью «МосЧип» ИНН 7719860671 / КПП 771901001 Адрес: 105318, г.Москва, ул.Щербаковская д.3, офис 1107

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