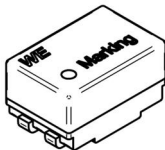
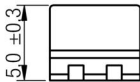
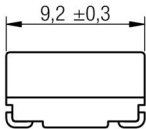
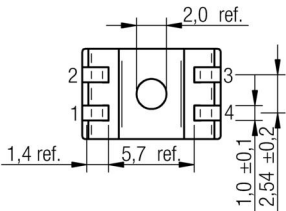
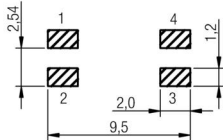


A Dimensions: [mm]



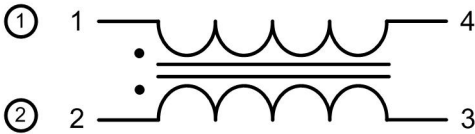
Scale - 2:1

B Recommended land pattern: [mm]



Scale - 2:1

C Schematic:



D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 5 mV	L	2x 2000	μH	±50%
Impedance		Z _{max}	9200	Ω	typ.
Rated current	ΔT = 40 K	I _R	600	mA	max.
DC Resistance		R _{DC}	2x 0.42	Ω	max.
Leakage inductance	1 MHz/ 1 mA	L _S	130	nH	typ.
Insulation test voltage		U _T	500	V (AC)	max.
Rated voltage		U _R	80	V	

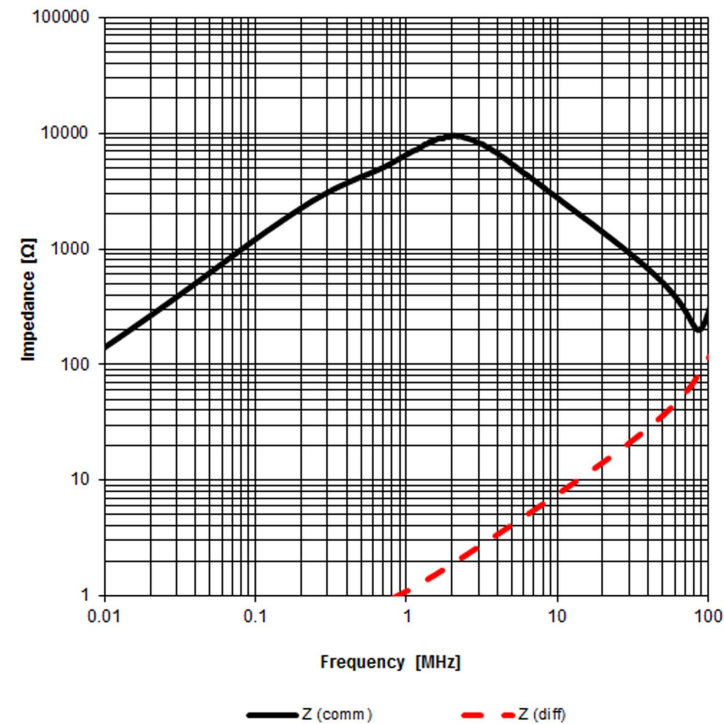
E General information:

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

- Ambient temperature: -40°C to +85°C (referring to I_R)
- 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



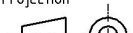

F Typical Impedance Characteristics:



Common Mode

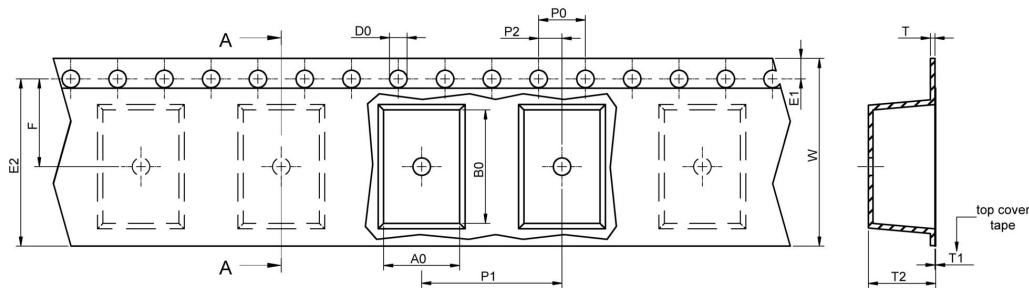


Differential Mode

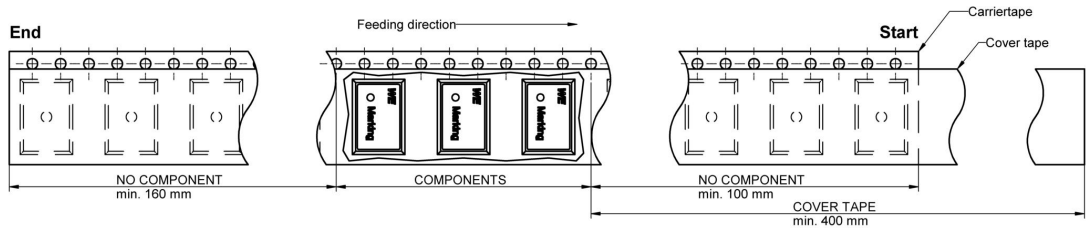
				<div>Projection</div> 		DESCRIPTION			
6.7	2013-11-19	SSt	SBa			<div>WE-SL2 SMD Common Mode Line Filter</div>			
6.6	2013-04-24	SSt	SSt						
6.5	2013-02-05	SSt	SBa	<div>Würth Elektronik eiSos GmbH & Co. KG</div> <div>EMC & Inductive Solutions</div> <div>Max-Eyth-Str. 1</div> <div>74638 Waldenburg</div> <div>Germany</div> <div>Tel. +49 (0) 79 42 945 - 0</div> <div>www.we-online.com</div> <div>eiSos@we-online.com</div>		Order.- No.			SIZE
6.4	2013-01-23	SSt	SBa			<div>744221</div>			A4
6.3	2012-12-05	SSt	SSt						
6.2	2012-10-24	SSt	SBa						
6.1	2012-07-17	SSt	SSt						
REV	DATE	BY	CHECKED						

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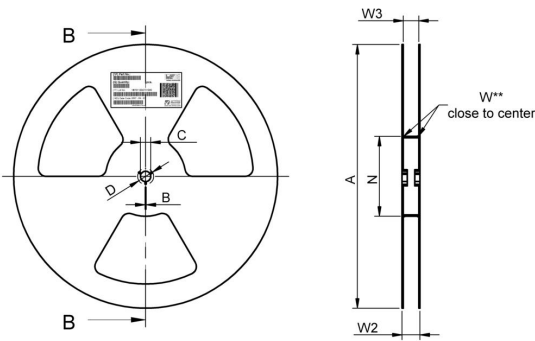
G Packaging Specification - Tape and Reel [mm]:



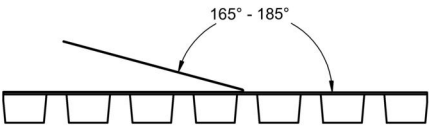
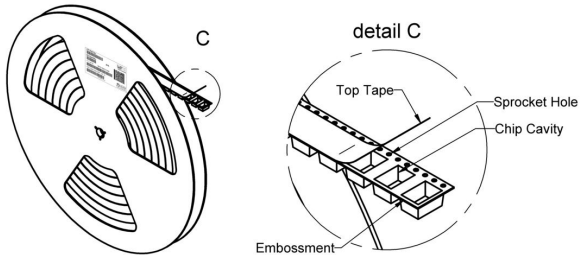
		A0	B0	W	P1	T	T1	T2	D0	E1	E2	F	P0	P2	VPE / packaging unit
tolerance		typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,1 -0,0	± 0,1	min.	± 0,05	± 0,1	± 0,05	
size	74422x	6,50	9,70	16,00	12,00	0,40	0,10	5,70	1,50	1,75	14,25	7,50	4,00	2,00	1000



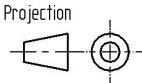
Packaging is referred to the international standard IEC 60286 -3:2007



		A	B	C	D	N	W1	W2	W3	W3
tolerance			min.	± 0,8	min.	min.	+ 1,5	max.	min.	max.
Tape width	16 mm	330,00	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



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
eiSos@we-online.com

DESCRIPTION

WE-SL2 SMD Common Mode Line Filter

Order.- No.

744221



SIZE

A4

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H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Preheat <ul style="list-style-type: none">- Temperature Min (T_{smin})- Temperature Max (T_{smax})- Time (t_s) from (T_{smin} to T_{smax})	150°C 200°C 60-120 seconds
Ramp-up rate (T_L to T_P)	3°C/ second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217°C 60-150 seconds
Peak package body temperature (T_P)	See Table H3
Time within 5°C of actual peak temperature (t_p)	20-30 seconds
Ramp-down rate (T_P to T_L)	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

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I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-SL2 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 shall be used before the end of the period of 12 months based on the product date-code, 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.



				<div>Projection</div> <div></div>		DESCRIPTION	
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6.4	2013-01-23	SSt	SBa				
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6.2	2012-10-24	SSt	SBa				
6.1	2012-07-17	SSt	SSt				
REV	DATE	BY	CHECKED			<div>Order.- No.</div> <div>744221</div> <div><div><div>COMPLIANT</div><div>RoHS&REACH</div><div>WÜRTH ELEKTRONIK</div></div></div>	<div>SIZE</div> <div>A4</div>

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