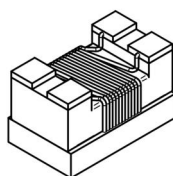
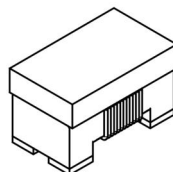
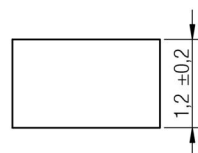
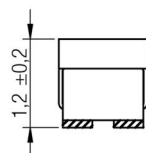
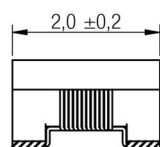
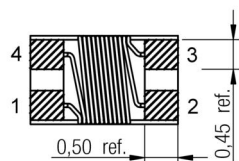
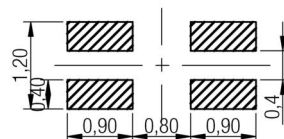
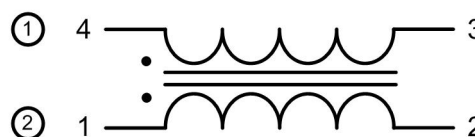


A Dimensions: [mm]

Scale - 10:1

B Recommended land pattern: [mm]

Scale - 10:1

C Schematic:**D Electrical Properties:**

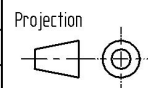
Properties	Test conditions		Value	Unit	Tol.
Impedance	100 MHz	Z	90	Ω	$\pm 25\%$
Rated current	$\Delta T = 40\text{ K}$	I_R	370	mA	max.
DC Resistance		R_{DC}	0.30	Ω	max.
Insulation test voltage		U_T	125	V (AC)	max.
Rated voltage		U_R	50	V	

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

				Projection		DESCRIPTION
5.7	2014-07-21	SSt	IMA			WE-CNSW SMD Common Mode Line Filter
5.6	2014-05-12	SSt	SSt			
5.5	2014-01-07	SSt	SSt			
5.4	2013-04-24	SSt	SSt			
5.3	2012-12-05	SSt	SSt			
5.2	2012-10-24	SSt	SBa			
5.1	2012-07-17	SSt	SSt			
REV	DATE	BY	CHECKED			



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eiSos@we-online.com

Order.- No.

744231091

Size: 0805

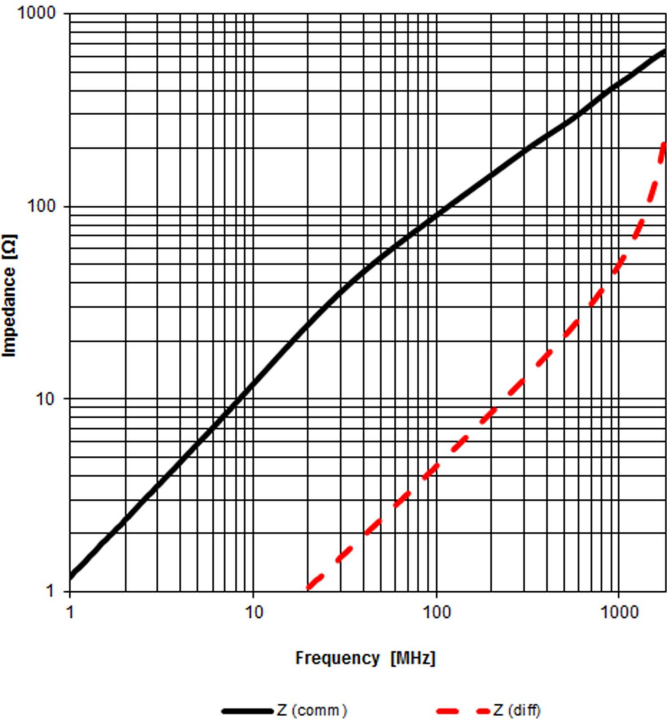


SIZE

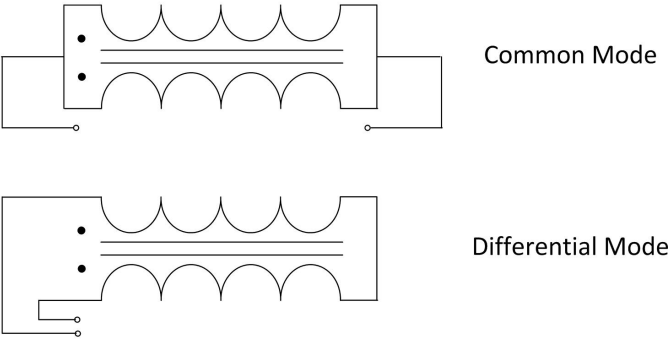
A4



F1 Typical Impedance Characteristics:



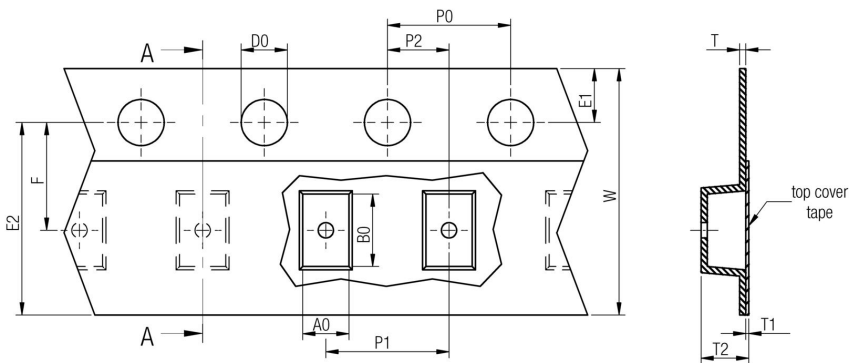
Test Setup:



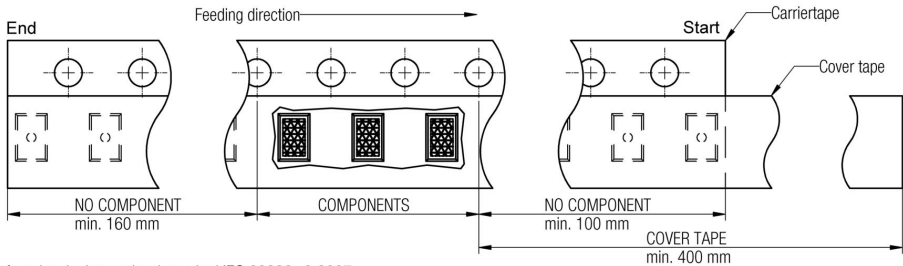
				Projection		DESCRIPTION	
5.7	2014-07-21	SSt	IMA		<p>Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com</p>	WE-CNSW SMD Common Mode Line Filter	
5.6	2014-05-12	SSt	SSt			Order.- No.	SIZE
5.5	2014-01-07	SSt	SSt			 744231091	A4
5.4	2013-04-24	SSt	SSt				
5.3	2012-12-05	SSt	SSt				
5.2	2012-10-24	SSt	SBa				
5.1	2012-07-17	SSt	SSt			Size: 0805	
REV	DATE	BY	CHECKED				

This electronic component has been designed and developed for usage in general electronic equipment only. This product is not authorized for use in equipment where a higher safety standard and reliability standard is especially required or where a failure of the product is reasonably expected to cause severe personal injury or death, unless the parties have executed an agreement specifically governing such use. Moreover Würth Elektronik eiSos GmbH & Co KG products are neither designed nor intended for use in areas such as military, aerospace, aviation, nuclear control, submarine, transportation (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc.. Würth Elektronik eiSos GmbH & Co KG must be informed about the intent of such usage before the design-in stage. In addition, sufficient reliability evaluation checks for safety must be performed on every electronic component which is used in electrical circuits that require high safety and reliability functions or performance.

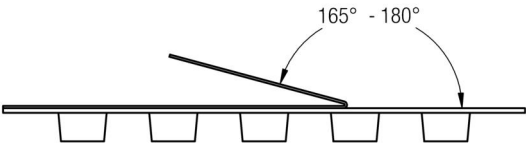
G Packaging Specification - Tape and Reel [mm]:



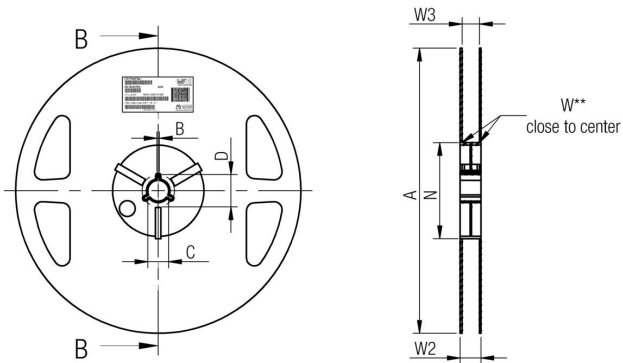
size		A0	B0	W	P1	T	T1	T2	D0	E1	E2	F	P0	P2	Tape	VPE / packaging unit
	tolerance	typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,1 -0,0	± 0,1	min.	± 0,05	± 0,1	± 0,05		
	0603	1,05	1,85	8,00	4,00	0,20	0,10	1,15	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	2000
	0805	1,50	2,35	8,00	4,00	0,20	0,10	1,45	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	2000
	1206	1,88	3,50	8,00	4,00	0,20	0,10	2,10	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene	2000
	1812	3,60	4,90	12,00	8,00	0,26	0,1	3,30	1,50	1,75	10,25	5,50	4,00	2,00	Polystyrene	500



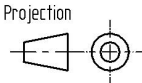
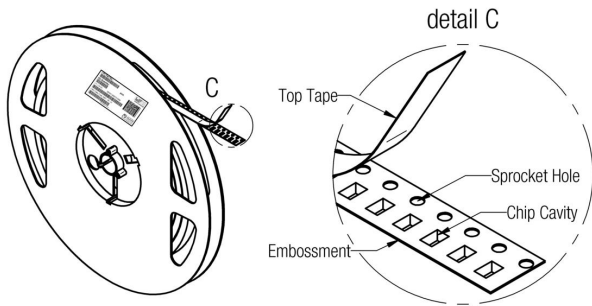
Packaging is referred to the international standard IEC 60286 -3:2007



Pull-of force	
Tape width	8 mm
	0,1 N - 1,0 N



	A	B	C	D	N	W1	W2	W3	W3
tolerance	± 2,0	min.	± 0,8	min.	min.	+ 1,5	max.	min.	max.
Tape width	8 mm	178,00	1,50	13,00	20,20	50,00	8,40	14,40	7,90 10,90



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eiSos@we-online.com

DESCRIPTION

WE-CNSW SMD Common Mode Line Filter

Order.- No.

744231091

Size: 0805



SIZE

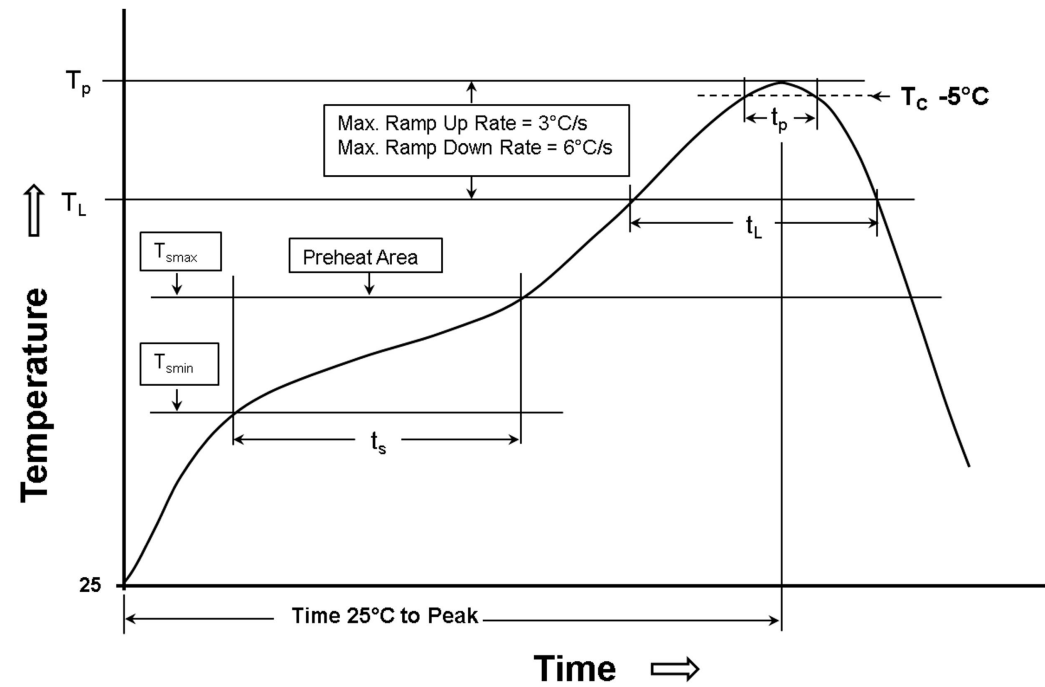
A4

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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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5.7	2014-07-21	SSt	IMA			WE-CNSW SMD Common Mode Line Filter
5.6	2014-05-12	SSt	SSt			
5.5	2014-01-07	SSt	SSt			
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Order.- No.
744231091
Size: 0805

COMPLIANT
RoHS&REACH
WÜRTH ELEKTRONIK

SIZE
A4

I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-CNSW 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 usage 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. 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 endangered 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 to customer specific products.

Cleaning agents that are used to clean the customer 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.

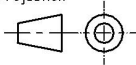
Product specific:

Follow all instructions mentioned in the data sheet, especially:

- The soldering profile has to be complied with according to the technical reflow soldering specification, otherwise this will void the warranty.
- 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 ensured.
- Violation of the technical product specifications such as exceeding the nominal rated current will void the warranty.
- Using a brush during the cleaning process could break the wire due to the small diameter with the consequence of open circuits. We highly recommend not using a brush during the PCB cleaning process.

The general and product specific cautions comply with the state of the scientific and technical knowledge and are believed to be accurate and reliable; however, no responsibility is assumed for inaccuracies or incompleteness.



				Projection 		DESCRIPTION WE-CNSW SMD Common Mode Line Filter
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5.6	2014-05-12	SSt	SSt			Order.- No. 744231091 
5.5	2014-01-07	SSt	SSt		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	SIZE
5.4	2013-04-24	SSt	SSt			A4
5.3	2012-12-05	SSt	SSt			
5.2	2012-10-24	SSt	SBa			
5.1	2012-07-17	SSt	SSt			
REV	DATE	BY	CHECKED			Size: 0805

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