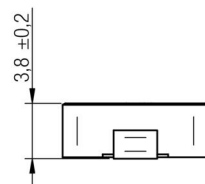
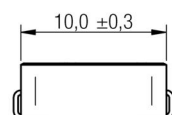
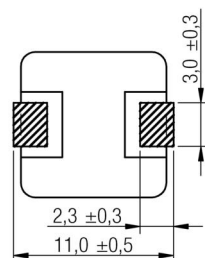
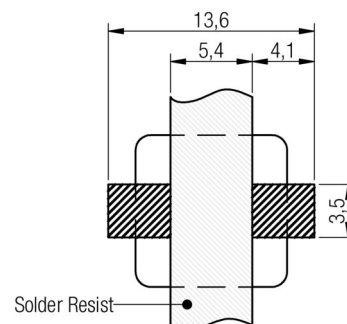


A Dimensions: [mm]

Scale - 2:1

B Recommended land pattern: [mm]

no vias and traces in restricted area

Scale - 2:1

C Schematic:**D Electrical Properties:**

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 10 mA	L	0.39	μH	±20%
Rated current	ΔT = 40 K	I _R	20.5	A	max.
Saturation current	IΔL/LI < 20%	I _{sat}	63.0	A	typ.
DC Resistance	@ 20°C	R _{DC}	1.1	mΩ	typ.
DC Resistance	@ 20°C	R _{DC}	1.3	mΩ	max.
Self resonant frequency		f _{res}	101	MHz	typ.

E General information:

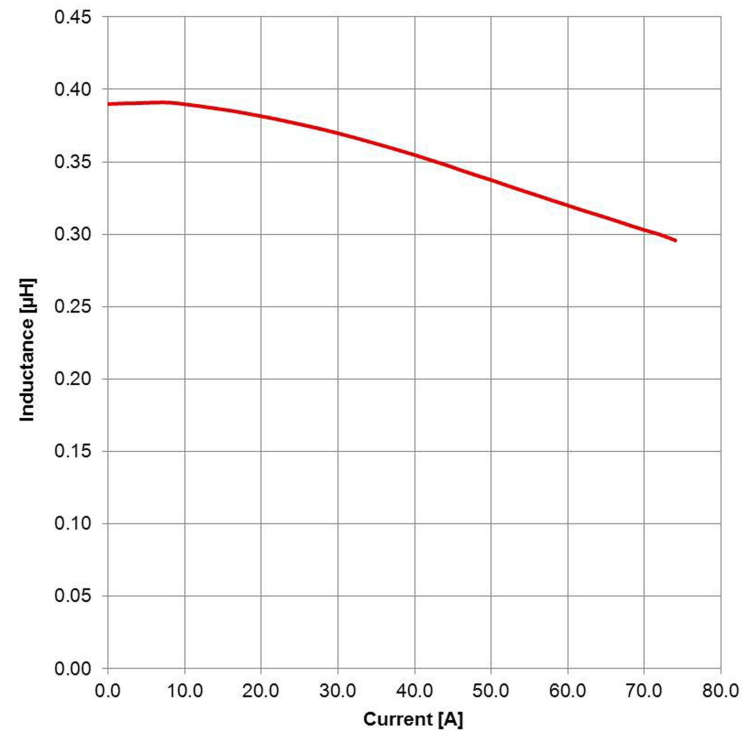
It is recommended that the temperature of the part does not exceed 125°C under worst case operating conditions.

- 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

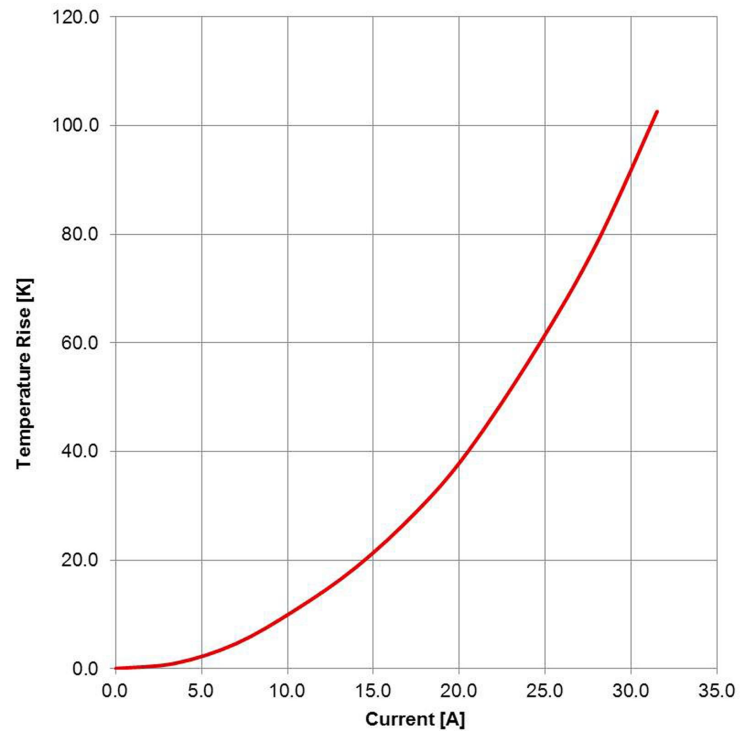
				Projection		DESCRIPTION
1.6	2013-04-29	SSt	SSt			WE-LHMI SMD Power Inductor
1.5	2012-12-06	SSt	SSt			
1.4	2012-10-25	SSt	BD	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		Order.- No.
1.3	2012-09-13	SSt	BD			744373680039
1.2	2012-06-28	SSt	SSt			
1.1	2012-02-29	SSt	BD			Size: 1040
1.0	2011-10-01	SSt	BD			
REV	DATE	BY	CHECKED			

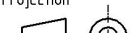


F Typical Inductance vs. Current Characteristics:



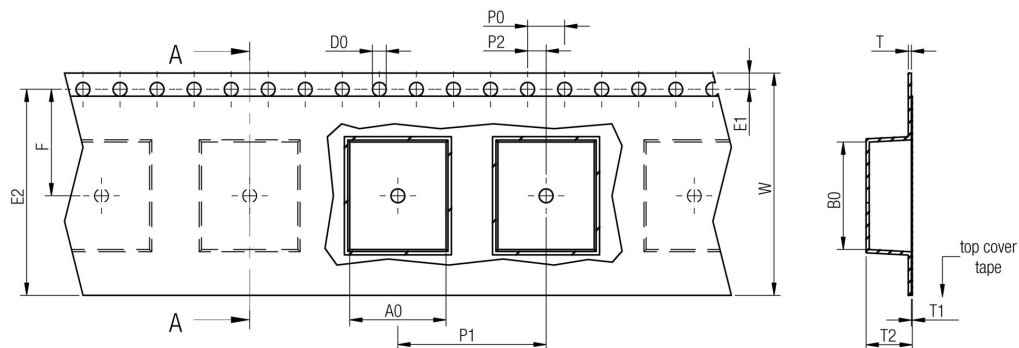
F Typical Temperature rise vs. Current Characteristics:



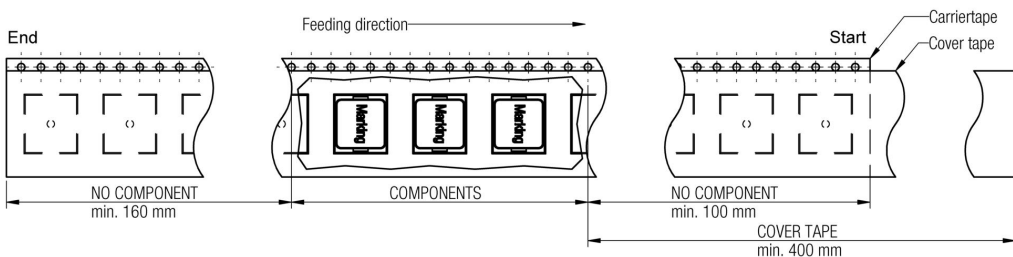
				Projection 		DESCRIPTION				
1.6	2013-04-29	SSt	SSt			WE-LHMI SMD Power Inductor				
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1.3	2012-09-13	SSt	BD				744373680039			A4
1.2	2012-06-28	SSt	SSt							
1.1	2012-02-29	SSt	BD				Size: 1040			
1.0	2011-10-01	SSt	BD							
REV	DATE	BY	CHECKED							

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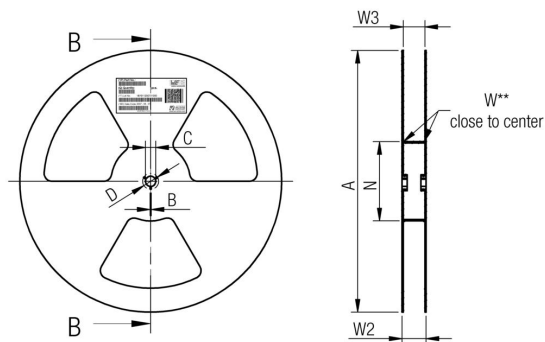
G Packaging Specification - Tape and Reel [mm]:



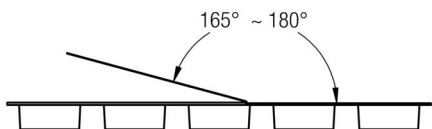
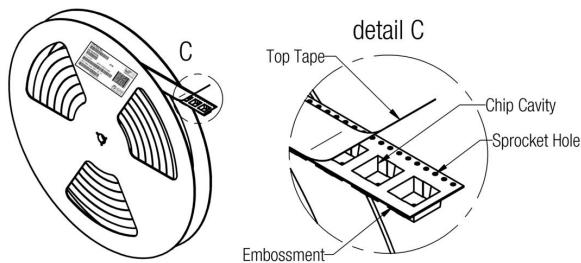
	A0	B0	W	P1	T	T1	T2	D0	E1	E2	F	P0	P2	Tape	VPE / packaging unit
tolerance	typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,1 -0,0	± 0,1	min.	± 0,05	± 0,1	± 0,05		
size	4020	4,41	5,00	12,00	8,00	0,35	0,10	2,70	1,50	1,75	6,25	3,50	4,00	2,00	Polystyrene 3000
	7030	7,00	7,70	16,00	12,00	0,35	0,10	3,70	1,50	1,75	14,25	7,50	4,00	2,00	Polystyrene 1000
	7050	7,00	7,70	16,00	12,00	0,35	0,10	5,70	1,50	1,75	14,25	7,50	4,00	2,00	Polystyrene 800
	1040	10,40	11,60	24,00	16,00	0,35	0,10	4,90	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene 500
	1335	13,00	14,10	24,00	16,00	0,35	0,10	4,40	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene 500



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

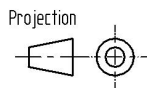


	A	B	C	D	N	W1	W2	W3	W3
tolerance	± 2,0	min.	± 0,8	min.	min.	+ 1,5	max.	min.	max.
Tape width	12 mm	330,00	1,50	13,00	20,20	100,00	12,40	18,40	11,90
	16 mm	330,00	1,50	13,00	20,20	100,00	16,40	22,40	15,90
	24 mm	330,00	1,50	13,00	20,20	100,00	24,40	30,40	23,90



	Pull-of force
Tape width 12 mm	0,1 N - 1,3 N
16 mm	0,1 N - 1,3 N
24 mm	0,1 N - 1,3 N

1.6	2013-04-29	SSt	SSt	
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1.3	2012-09-13	SSt	BD	
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REV	DATE	BY	CHECKED	



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Germany
Tel. +49 (0) 79 42 945 - 0
www.we-online.com
eiSos@we-online.com

DESCRIPTION

WE-LHMI SMD Power Inductor

Order.- No.

744373680039

Size: 1040



SIZE

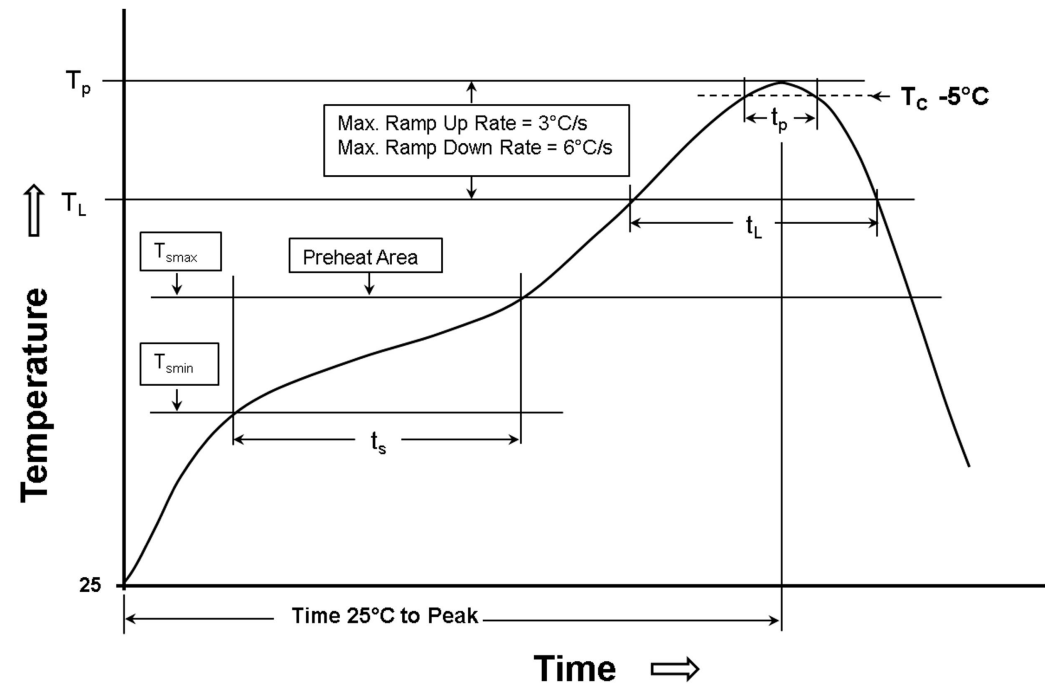
A4

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H Soldering Specifications:



H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Preheat - 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.

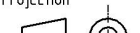
refer to IPC/JEDEC J-STD-020D

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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1.3	2012-09-13	SSt	BD			744373680039			A4	
1.2	2012-06-28	SSt	SSt						Size: 1040	
1.1	2012-02-29	SSt	BD							
1.0	2011-10-01	SSt	BD							
REV	DATE	BY	CHECKED							

I Cautions and Warnings:

The following conditions apply to all goods within the product series of WE-LHMI 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, pins or termination.

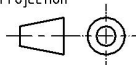
Direct mechanical impact to the product shall be prevented as the iron powder material of the core could flake or in the worst case it could break.

Product specific:

Follow all instructions mentioned in the datasheet, especially:

- The solder 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.



				Projection 		DESCRIPTION		
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REV	DATE	BY	CHECKED			Order. - No. 744373680039 Size: 1040	COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK	SIZE A4

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