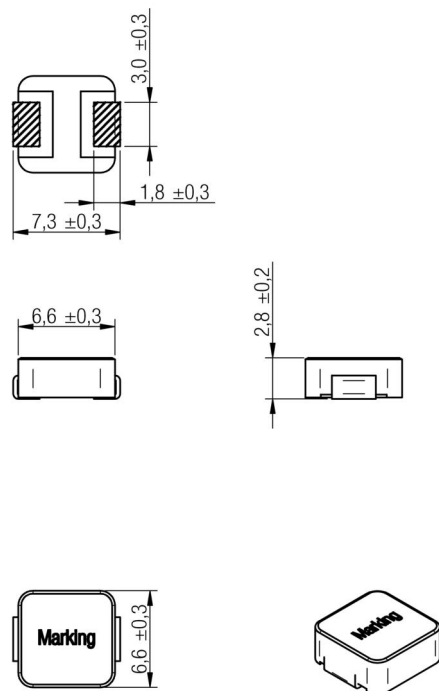
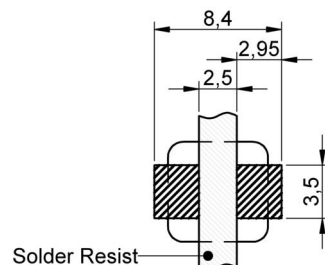


A Dimensions: [mm]**B Recommended land pattern: [mm]**

no vias and traces in restricted area

Scale - 2:1

C Schematic:

Scale - 2:1

**D Electrical Properties:**

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 10 mA	L	6.8	μH	±20%
Rated current	ΔT = 40 K	I _R	3.4	A	max.
Saturation current	IΔL/L < 20%	I _{sat}	8.0	A	typ.
DC Resistance	@ 20°C	R _{DC}	54.0	mΩ	typ.
DC Resistance	@ 20°C	R _{DC}	60.0	mΩ	max.
Self resonant frequency		f _{res}	18	MHz	typ.

E General information:

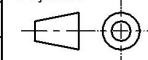
It is recommended that the temperature of the part does not exceed 125°C under worst case operating conditions.

- 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

Reference on drawing	Description
Marking	6R8 (Inductance Code)

				Projection		DESCRIPTION
1.10	2014-11-24	SSt	DDe			WE-LHMI SMD Power Inductor
1.9	2014-09-04	SSt	DDe			
1.8	2013-12-18	SSt	SSt			
1.7	2013-09-03	SSt	DDe			
1.6	2013-04-29	SSt	SSt			
1.5	2012-12-06	SSt	SSt			
1.4	2012-10-25	SSt	BD			
REV	DATE	BY	CHECKED			

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
eiSos@we-online.com

Order.- No.

74437346068

Size: 7030

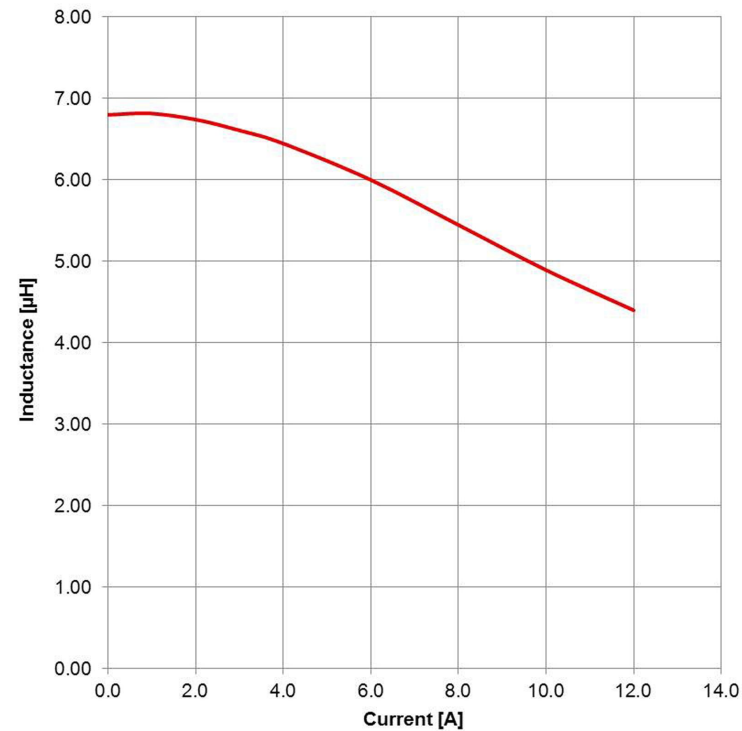


SIZE

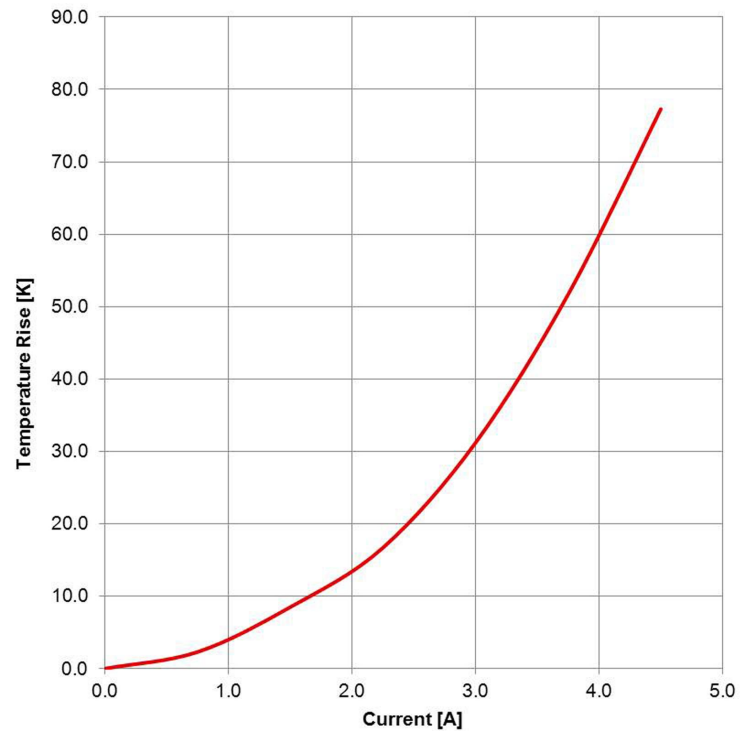
A4




F1 Typical Inductance vs. Current Characteristics:



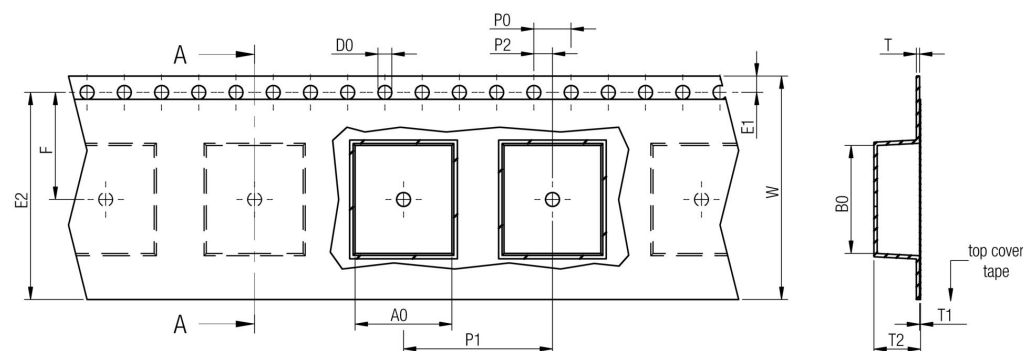
F2 Typical Temperature Rise vs. Current Characteristics:



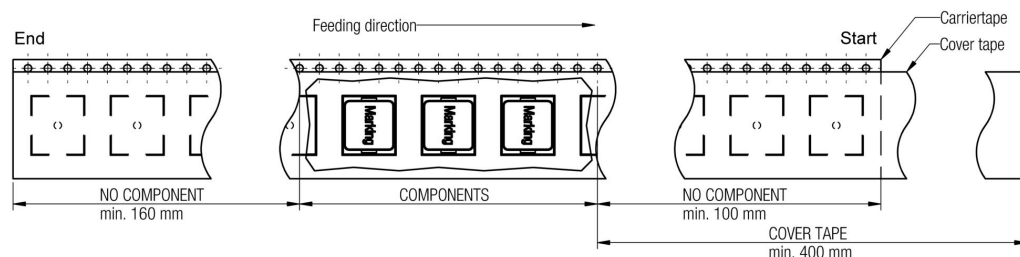
				<div>Projection</div> 		DESCRIPTION		
1.10	2014-11-24	SSt	DDe			<div>WE-LHMI SMD Power Inductor</div>		
1.9	2014-09-04	SSt	DDe					
1.8	2013-12-18	SSt	SSt	<div>Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com</div>		Order.- No.		SIZE
1.7	2013-09-03	SSt	DDe			<div>74437346068</div>		<div>A4</div>
1.6	2013-04-29	SSt	SSt					
1.5	2012-12-06	SSt	SSt					
1.4	2012-10-25	SSt	BD					
REV	DATE	BY	CHECKED					
						Size: 7030		

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.

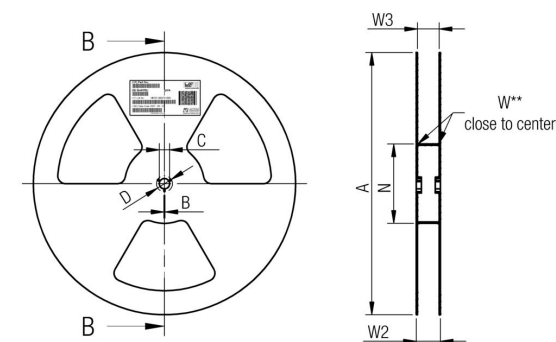
G Packaging Specification - Tape and Reel [mm]:



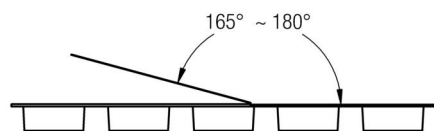
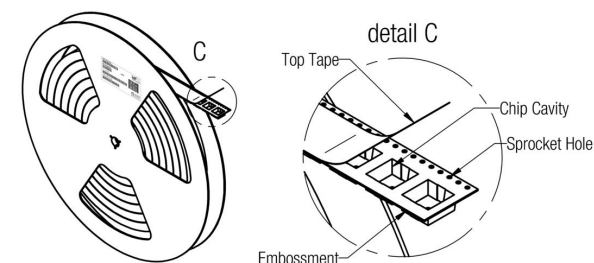
		A0	B0	W	P1	T	T1	T2	D0	E1	E2	F	P0	P2	Tape	VPE / packaging unit
	tolerance	typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,1 -0,0	± 0,1	min.	± 0,05	± 0,1	± 0,05		
size	4012	4,40	5,00	12,00	8,00	0,35	0,10	1,50	1,50	1,75	10,25	5,50	4,00	2,00	Polystyrene	4000
	4020	4,40	5,00	12,00	8,00	0,35	0,10	2,30	1,50	1,75	10,25	5,50	4,00	2,00	Polystyrene	3000
	5020	5,50	6,30	12,00	8,00	0,35	0,10	2,30	1,50	1,75	10,25	5,50	4,00	2,00	Polystyrene	3000
	5030	5,50	6,20	12,00	8,00	0,35	0,10	3,30	1,50	1,75	10,25	5,50	4,00	2,00	Polystyrene	2000
	7030	7,00	7,70	16,00	12,00	0,35	0,10	3,30	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	5,30	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	4,50	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	500
	1335	12,90	14,10	24,00	16,00	0,35	0,10	4,00	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

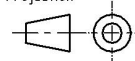


		A	B	C	D	N	W1	W2	W3	W3
	tolerance	± 2,0	min.	± 0,8	min.	± 2,0	+ 1,5	max.	min.	max.
Tape width	12mm	330,00	1,50	13,00	20,20	100,00	12,40	18,40	11,90	15,40
	16mm	330,00	1,50	13,00	20,20	100,00	16,40	22,40	15,90	19,40
Tape width	24mm	330,00	1,50	13,00	20,20	100,00	24,40	30,40	23,90	27,40



		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

Projection



DESCRIPTION

WE-LHMI SMD Power Inductor

Order.- No.

74437346068

Size: 7030



SIZE

A4

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.

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

				<div>Projection</div> 		DESCRIPTION			
1.10	2014-11-24	SSt	DDe				WE-LHMI SMD Power Inductor		
1.9	2014-09-04	SSt	DDe						
1.8	2013-12-18	SSt	SSt	<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.		 <div>COMPLIANT</div> <div>RoHS&REACH</div> <div>WÜRTH ELEKTRONIK</div>	SIZE
1.7	2013-09-03	SSt	DDe			74437346068			A4
1.6	2013-04-29	SSt	SSt			Size: 7030			
1.5	2012-12-06	SSt	SSt						
1.4	2012-10-25	SSt	BD						
REV	DATE	BY	CHECKED						

