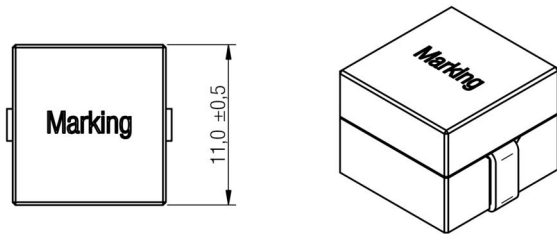
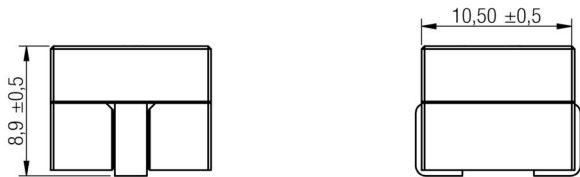
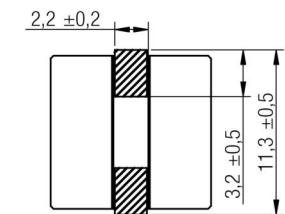


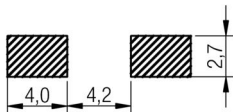
A Dimensions: [mm]



Scale - 2:1

Reference on drawing	Description
Marking	744301047 (Article Number)
Date code	YYWW

B Recommended land pattern: [mm]



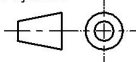
Scale - 2:1

C Schematic:



2.4	2015-03-04	SSt	BD
2.3	2014-09-16	SSt	BD
2.2	2014-02-06	SSt	BD
2.1	2013-12-11	SSt	SSt
2.0	2013-06-20	SSt	BD
1.0	2010-07-16	BD	-
REV	DATE	BY	CHECKED

Projection



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D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 10 mA	L	470	nH	± 20%
Rated inductance	100 kHz/ 10 mA/ 38 A	L _R	240	nH	typ.
Rated current	ΔT = 40 K	I _R	38.0	A	max.
Saturation current	IΔL/LI < 20%	I _{sat}	35.0	A	typ.
DC Resistance	@ 20°C	R _{DC}	0.320	mΩ	±7%
Self resonant frequency		f _{res}	110	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



DESCRIPTION

WE-HCM SMD High Current Flat Wire Inductor

Order.- No.

744301047

Size: 1190

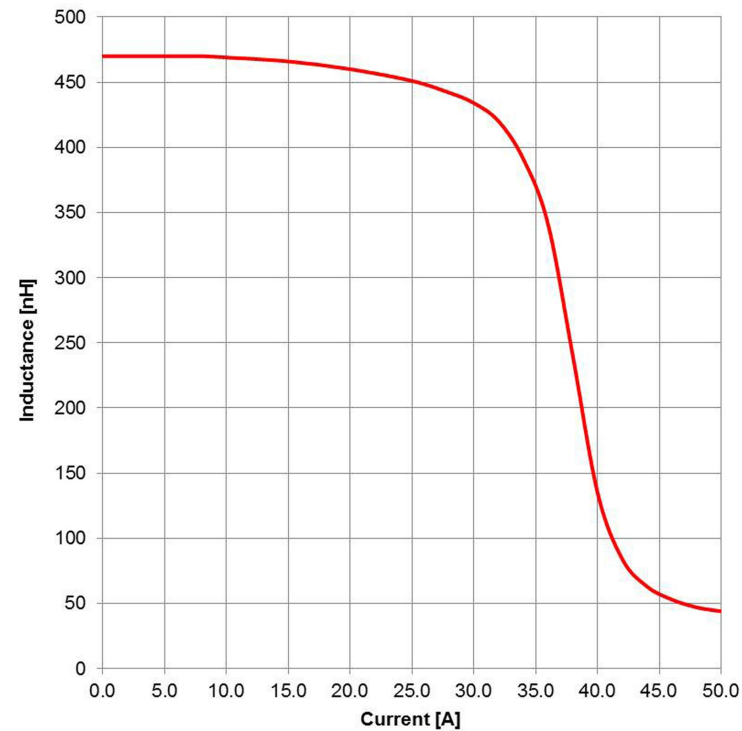


SIZE

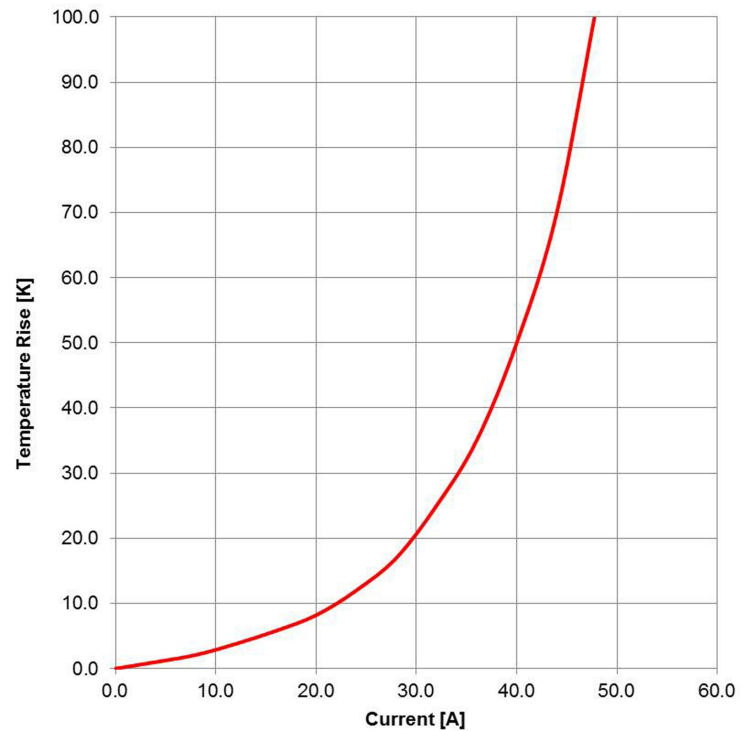
A4

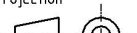


F1 Typical Inductance vs. Current Characteristics:



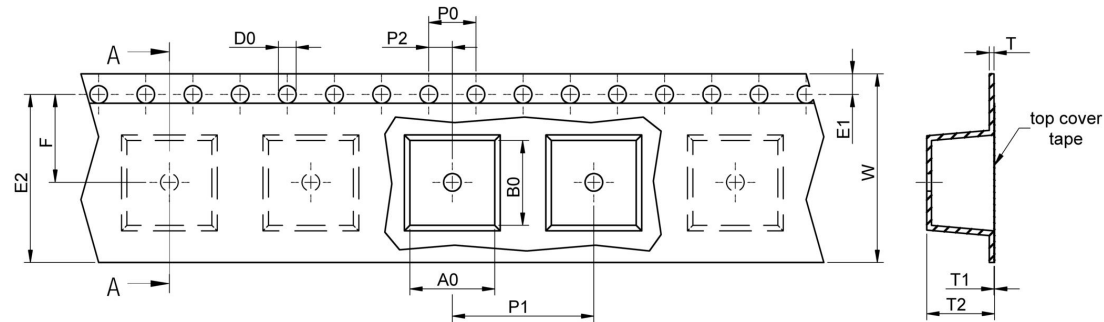
F2 Typical Temperature Rise vs. Current Characteristics:



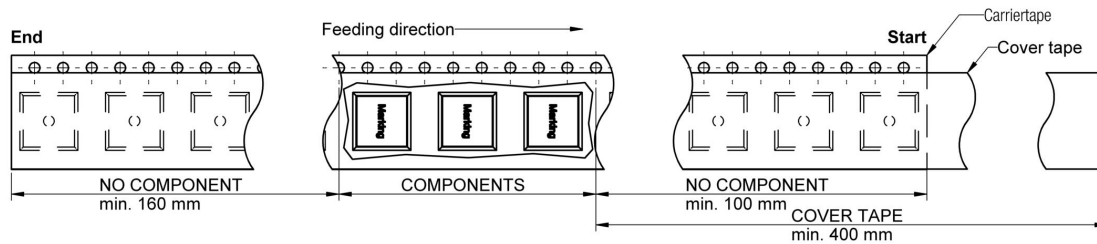
				Projection 	DESCRIPTION			
2.4	2015-03-04	SSt	BD		WE-HCM SMD High Current Flat Wire Inductor			
2.3	2014-09-16	SSt	BD	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com				
2.2	2014-02-06	SSt	BD					
2.1	2013-12-11	SSt	SSt					
2.0	2013-06-20	SSt	BD					
1.0	2010-07-16	BD	-					
REV	DATE	BY	CHECKED	Order.- No. 744301047 Size: 1190  COMPLIANT RoHS&REACH WÜRTH ELEKTRONIK SIZE A4				

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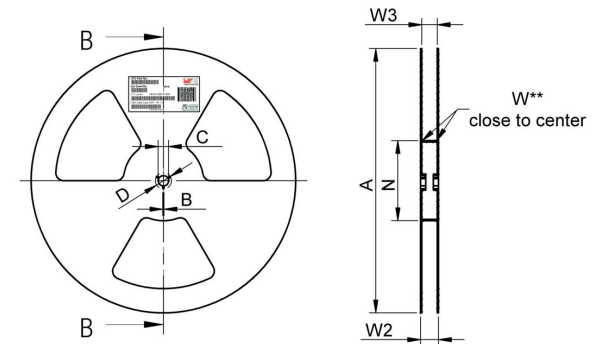
G Packaging Specification - Tape and Reel [mm]:



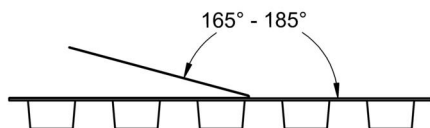
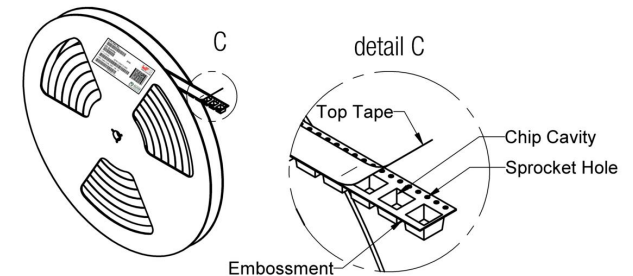
		A0	B0	W	P1	T	T1	T2	D0	E1	E2	F	P0	P2	Tape	VPE / packaging unit
tolerance		typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,1 -0,0	± 0,1	min.	± 0,05	± 0,1	± 0,05		
size	7050	7,20	7,10	16,00	12,00	0,40	0,10	5,70	1,50	1,75	14,25	7,50	4,00	2,00	Polystyrene	1000
	7070	8,10	8,30	24,00	16,00	0,45	0,10	8,00	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	500
	1050	7,10	10,30	24,00	12,00	0,45	0,10	5,80	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	1000
	1070	8,10	11,20	24,00	16,00	0,45	0,10	9,00	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	500
	1052	11,10	11,40	24,00	16,00	0,45	0,10	5,80	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	700
	1190	11,60	12,00	24,00	20,00	0,45	0,10	10,00	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	300
	1240	11,80	11,30	24,00	16,00	0,45	0,10	5,00	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	700
	1350	14,20	14,30	24,00	20,00	0,45	0,10	6,10	1,50	1,75	22,25	11,50	4,00	2,00	Polystyrene	500
1390	13,65	14,65	24,00	20,00	0,45	0,10	10,00	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

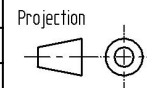


		A	B	C	D	N	W1	W2	W3	W3
tolerance		± 2,0	min.	± 0,8	min.	min.	+ 1,5	max.	min.	max.
Tape width	16 mm	330,00	1,50	13,00	20,20	100,00	16,40	22,40	15,90	19,40
	24 mm	330,00	1,50	13,00	20,20	100,00	24,40	30,40	23,90	27,40



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

2.4	2015-03-04	SSt	BD
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DESCRIPTION

WE-HCM SMD High Current Flat Wire Inductor

Order.- No.

744301047

Size: 1190



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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