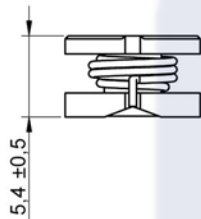
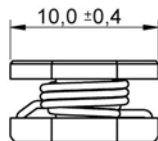
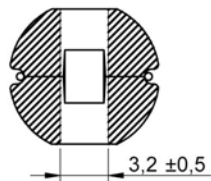


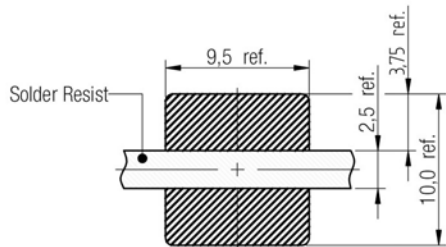
A Dimensions: [mm]



Scale - 2:1

Reference on drawing	Description
•	Start of winding
Marking	150 (Inductance Code)

B Recommended land pattern: [mm]



no vias and traces in restricted area

Scale - 2:1

C Schematic:



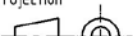
D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	10 KHz/ 100 mV	L	15	μH	±10%
Rated Current	ΔT = 40 K	I _R	2.47	A	max.
Saturation Current	ΔL/L < 10%	I _{sat}	2.88	A	typ.
DC Resistance	@ 20°C	R _{DC}	0.08	Ω	max.
DC Resistance	@ 20°C	R _{DC}	0.034	Ω	typ.
Self Resonant Freq.	@ 20°C	f _{res}	19	MHz	typ.
Rated Voltage	@ 20°C	U _R	80	V _{DC}	max.

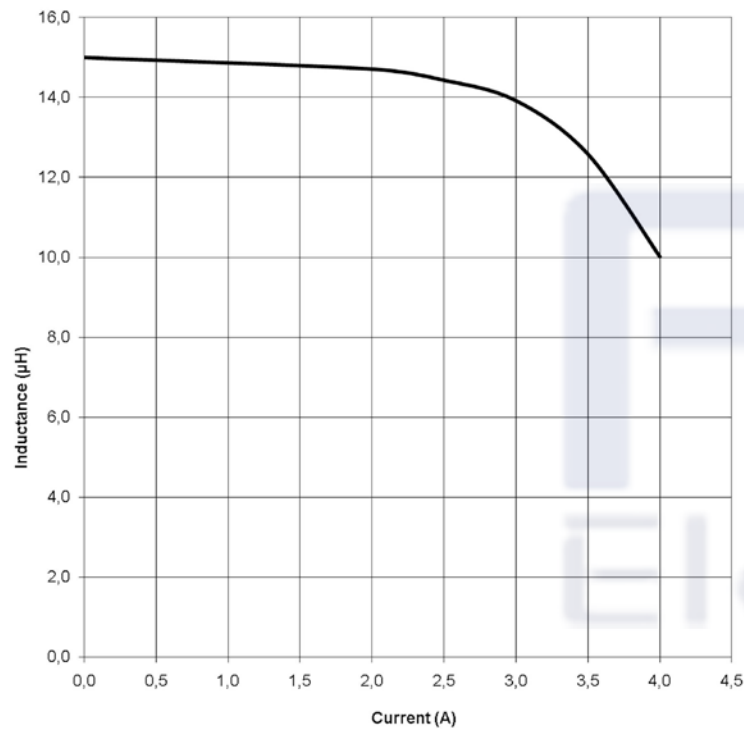
E General information:

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

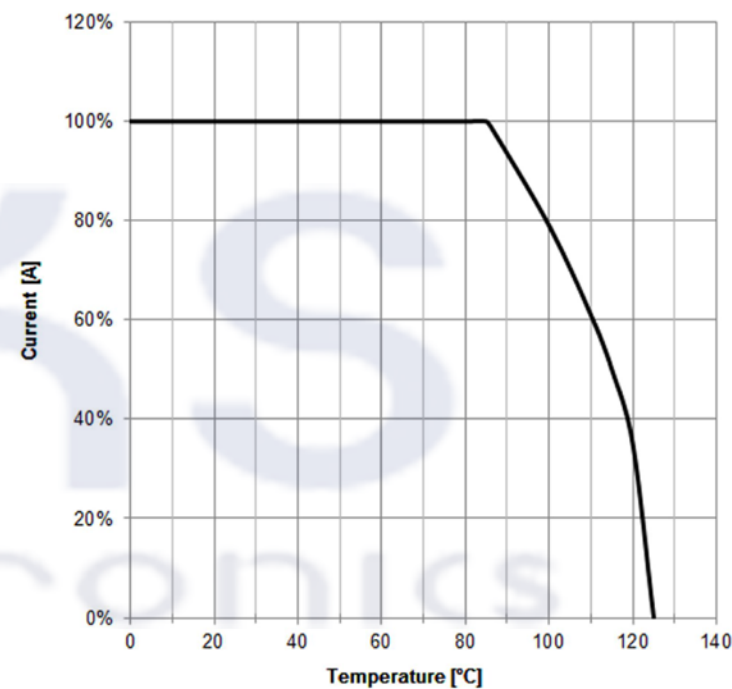
- Ambient temperature: -40°C to +85°C (referring to I_R)
- Operating temperature: -40°C to +125°C
- Storage temperature (on tape & reel): -20°C to +40°C; 75% RH max.
- Coplanarity of the terminal pads: 120μm
- Test conditions of Electrical Properties: 20°C, 33% RH
- AEC-Q 200 qualified

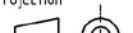
				Projection			DESCRIPTION	SMD Power Inductor	
2.3	2015-01-07	SSt	BMoe						
2.2	2014-05-19	SSt	BMoe						
2.1	2014-03-12	SSt	BMoe						
2.0	2014-02-03	SSt	BMoe						
1.7	2013-12-05	SSt	BMoe						
1.6	2013-10-10	SSt	BMoe	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com			Order.- No.		SIZE
1.5	2013-04-10	SSt	SSt				FKS784776115		A4
REV	DATE	BY	CHECKED				Size: 1054		

F1 Typical Inductance vs. Current Characteristics:

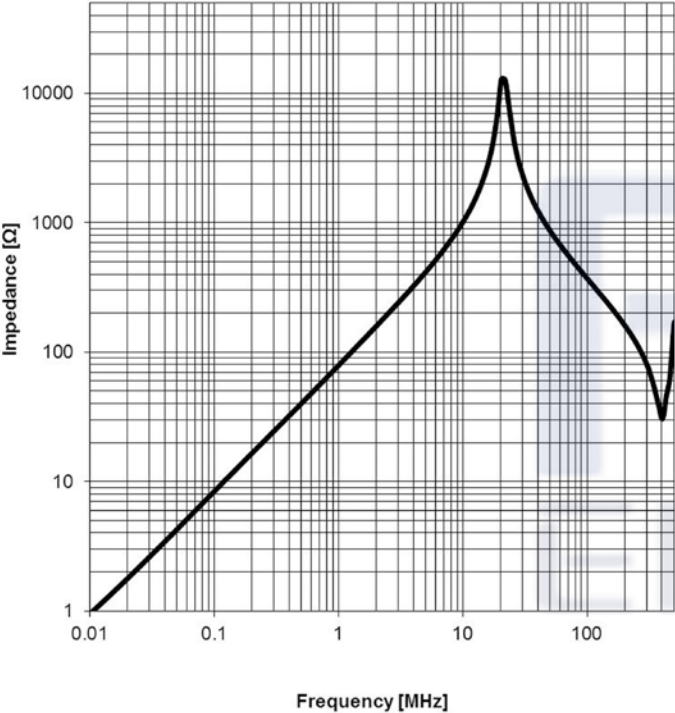


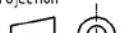
F2 Derating Curve:



				Projection 		DESCRIPTION	SMD Power Inductor	
2.3	2015-01-07	SSt	BMoe					
2.2	2014-05-19	SSt	BMoe	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.	 COMPLIANT RoHS&REACH HALOGENFREE	SIZE
2.1	2014-03-12	SSt	BMoe					
2.0	2014-02-03	SSt	BMoe					
1.7	2013-12-05	SSt	BMoe					
1.6	2013-10-10	SSt	BMoe					
1.5	2013-04-10	SSt	SSt			FKS784776115		A4
REV	DATE	BY	CHECKED			Size: 1054		

F3 Typical Impedance Characteristics:

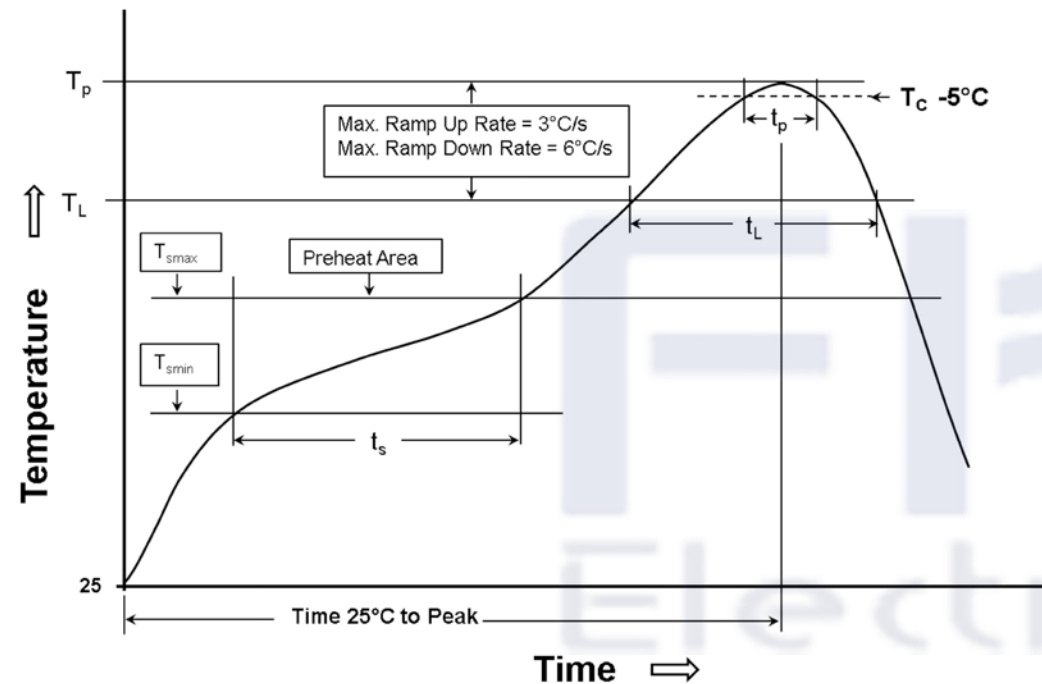


				Projection 		DESCRIPTION SMD Power Inductor		
2.3	2015-01-07	SSt	BMoe					
2.2	2014-05-19	SSt	BMoe	Würth Elektronik eiSos GmbH & Co. KG EMC & Inductive Solutions Max-Eyth-Str. 1 74638 Waldenburg Germany Tel. +49 (0) 79 42 945 - 0 www.we-online.com eiSos@we-online.com		Order.- No. FKS784776115		SIZE
2.1	2014-03-12	SSt	BMoe					A4
2.0	2014-02-03	SSt	BMoe					
1.7	2013-12-05	SSt	BMoe					
1.6	2013-10-10	SSt	BMoe					
1.5	2013-04-10	SSt	SSt					
REV	DATE	BY	CHECKED					



H Soldering Specifications:

H1: Classification Reflow Profile for SMT components:



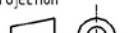
H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly	Sn-Pb 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	100°C 150°C 60-120 seconds
Ramp-up rate (T_L to T_P)	3°C/ second max.	3°C/ second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217°C 60-150 seconds	183°C 60-150 seconds
Peak package body temperature (T_P)	See Table H3	See table H3
Time within 5°C of actual peak temperature (t_p)	30 seconds	20 seconds
Ramp-down rate (T_P to T_L)	6°C/ second max.	6°C/ second max.
Time 25°C to peak temperature	8 minutes max.	6 minutes max.

refer to IPC/JEDEC J-STD-020D

H3: Package Classification Reflow Temperature

	Package Thickness	Volume mm³ <350	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
Sn-Pb Assembly	< 2.5 mm	235°C	220°C		
Sn-Pb Assembly	≥ 2.5 mm	220°C	220°C		

				Projection 		DESCRIPTION	
2.3	2015-01-07	SSt	BMoe				
2.2	2014-05-19	SSt	BMoe	SMD Power Inductor			
2.1	2014-03-12	SSt	BMoe				
2.0	2014-02-03	SSt	BMoe				
1.7	2013-12-05	SSt	BMoe				
1.6	2013-10-10	SSt	BMoe				
1.5	2013-04-10	SSt	SSt	Order.- No. FKS784776115 COMPLIANT RoHS&REACH HALOGEN FREE SIZE A4			
REV	DATE	BY	CHECKED				
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: 1054	