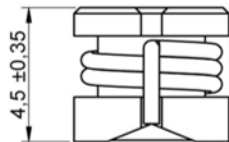
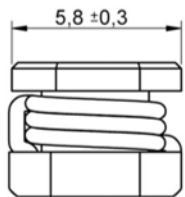
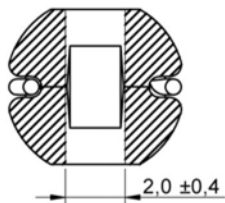


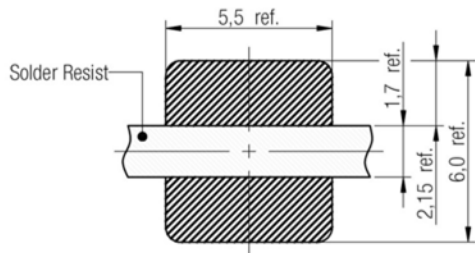
A Dimensions: [mm]



Scale - 4:1

Reference on drawing	Description
•	Start of winding
Marking	820 (Inductance Code)

B Recommended land pattern: [mm]



Scale - 4:1

C Schematic:



				Projection		DESCRIPTION
	2015-01-07					SMD Power Inductor
				Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913		Order.- No.
						FKS784774182
						SIZE
						A4
	DATE					Size: 5848



D Electrical Properties:

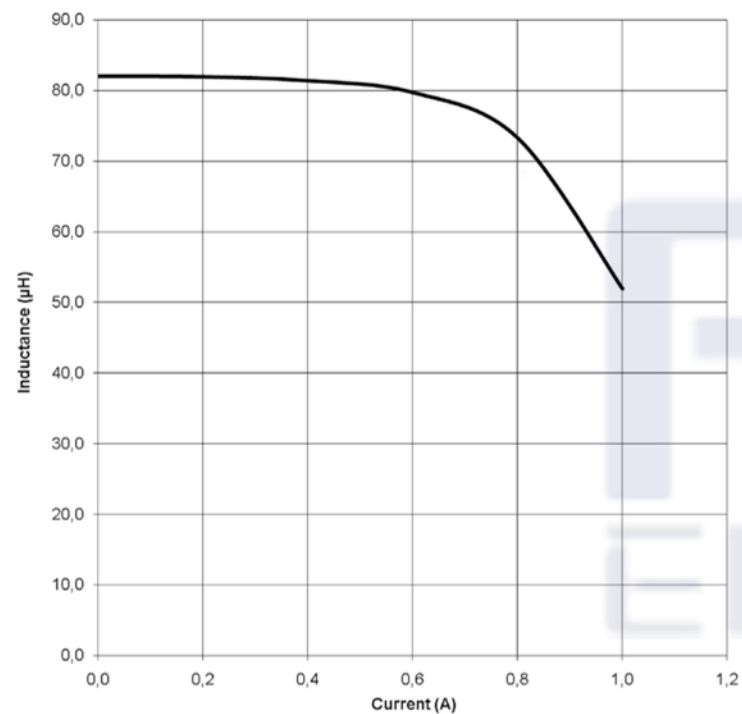
Properties	Test conditions		Value	Unit	Tol.
Inductance	10 KHz/ 100 mV	L	82	μH	±10%
Rated Current	ΔT = 40 K	I _R	0.60	A	max.
Saturation Current	ΔL/L < 10%	I _{sat}	0.72	A	typ.
DC Resistance	@ 20°C	R _{DC}	0.600	Ω	max.
DC Resistance	@ 20°C	R _{DC}	0.475	Ω	typ.
Self Resonant Freq.	@ 20°C	f _{res}	8	MHz	typ.
Rated Voltage	@ 20°C	U _R	80	V _{DC}	max.

E General information:

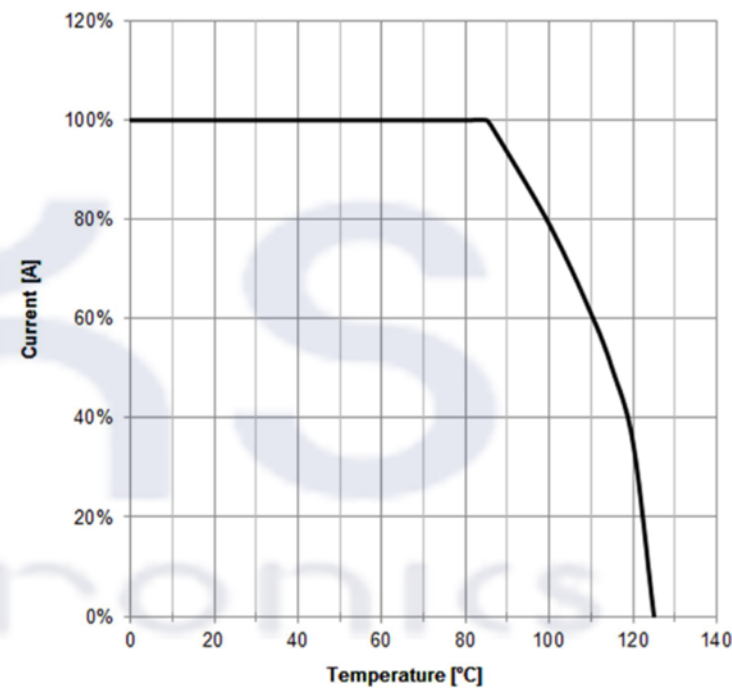
- It is recommended that the temperature of the part does not exceed 125°C under worst case operating conditions.
- Ambient temperature: -40°C to +85°C (referring to I_R)
 - Operating temperature: -40°C to +125°C
 - Storage temperature (on tape & reel): -20°C to +40°C; 75% RH max.
 - Coplanarity of the terminal pads: 120μm
 - Test conditions of Electrical Properties: 20°C, 33% RH
 - AEC-Q 200 qualified

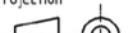


F1 Typical Inductance vs. Current Characteristics:



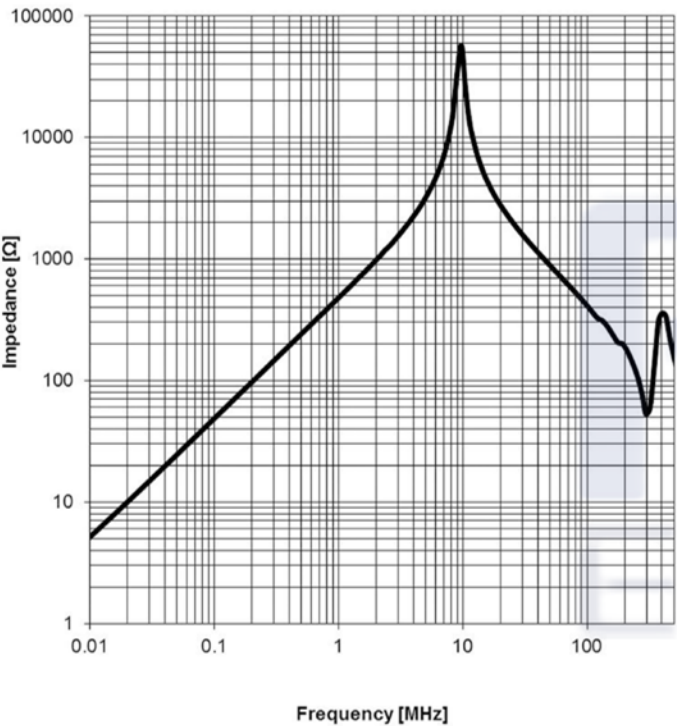
F2 Derating Curve:



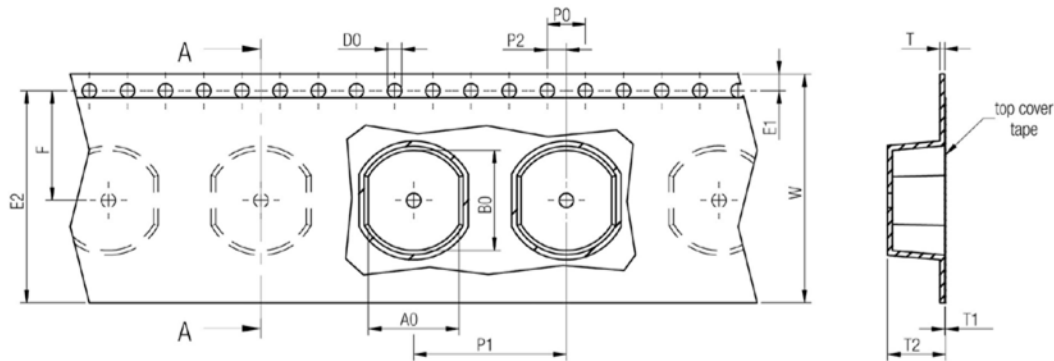
				Projection		DESCRIPTION
	2015-01-07					
				Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913		SMD Power Inductor
				 		
				Order.- No.		 COMPLIANT RoHS&REACH
				FKS784774182		
				Size: 5848		SIZE
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	DATE					



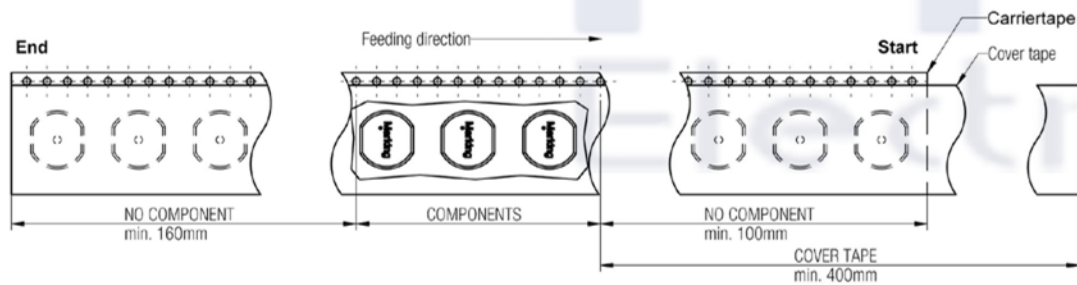
F3 Typical Impedance Characteristics:



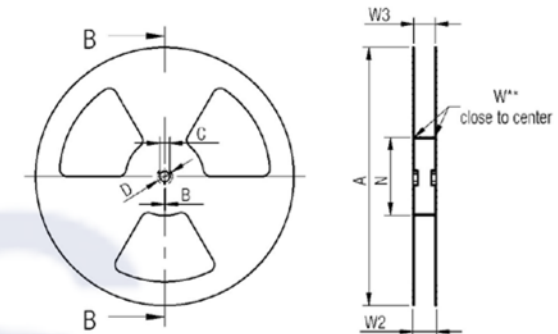
				Projection		DESCRIPTION	
	2015-01-07						
				Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913		SMD Power Inductor	
						Order.- No.	SIZE
						FKS784774182	A4
	DATE					Size: 5848	



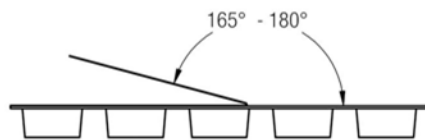
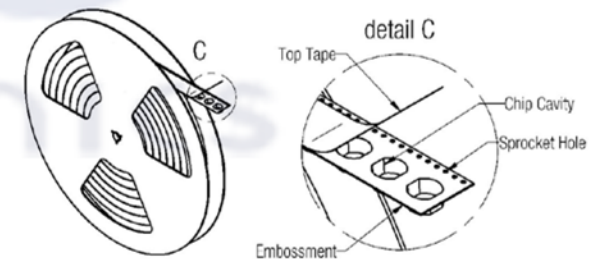
		A0	B0	W	P1	T	T1	T2	D0	E1	E2	F	P0	P2	VPE / packaging unit
tolerance		typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,3 -0,1	± 0,1	min.	± 0,05	± 0,1	± 0,05	
size	4532	4,50	5,50	16,00	8,00	0,25	0,10	4,00	1,50	1,75	14,25	7,50	4,00	2,00	1500
	5848	5,50	6,50	16,00	8,00	0,25	0,10	5,50	1,50	1,75	14,25	7,50	4,00	2,00	1500
	7850	7,50	8,50	16,00	12,00	0,25	0,10	6,00	1,50	1,75	14,25	7,50	4,00	2,00	500
	1054	9,50	10,50	24,00	16,00	0,50	0,10	7,00	1,50	1,75	22,25	11,50	4,00	2,00	500



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

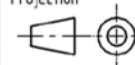


		A	B	C	D	N	W1	W2	W3	W3
tolerance			min.	± 0.8	min.	min.	+ 1,5	max.	min.	max.
Tape width	16 mm	330,00	1.50	13,00	20,20	100,00	16,40	22,40	15,90	19,40
	24 mm	330,00	1.50	13,00	20,20	100,00	24,40	30,40	23,90	27,40



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

Projection



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FKS(Xi'an) Electronic Technology Co.,Ltd.
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Tel: +86-29-8868 5333
Fax: +86-29-8868 0913

FKS
Electronics

DESCRIPTION

SMD Power Inductor

Order.- No.

FKS784774182

Size: 5848



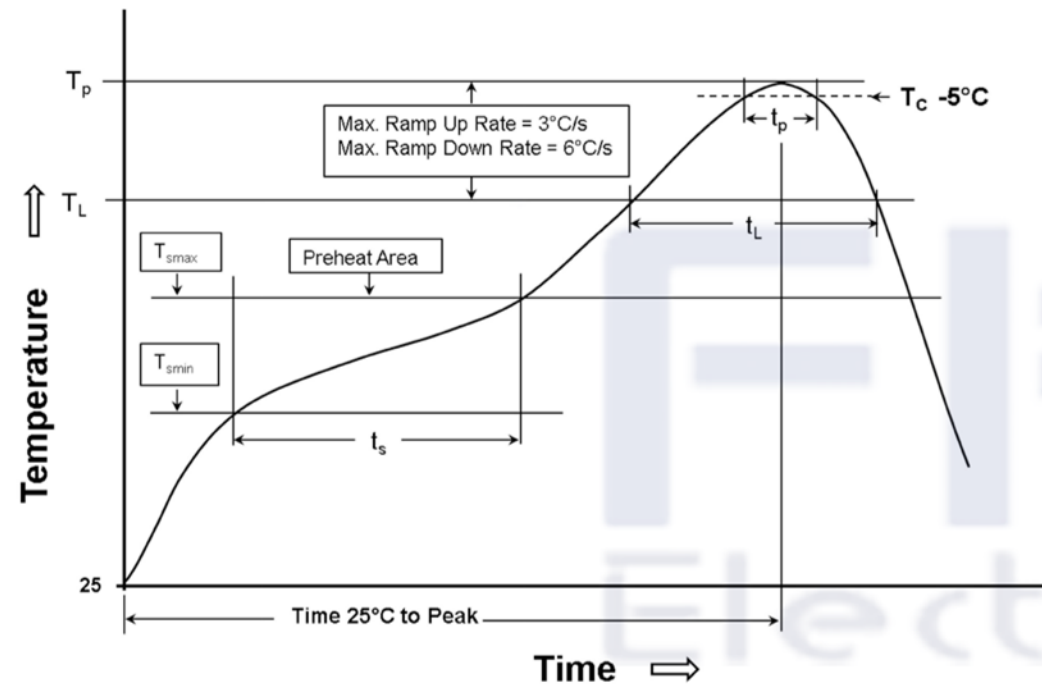
SIZE

A4

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 mm ³ <350	Volume mm ³ >350	Volume mm ³ 350 - 2000	Volume mm ³ >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
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