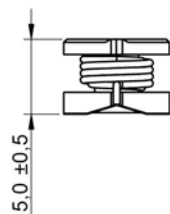
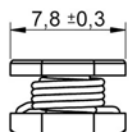
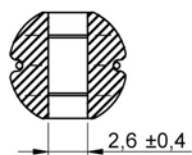


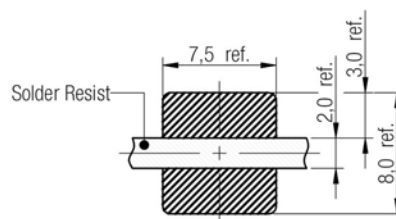
A Dimensions: [mm]



Scale - 2:1

Reference on drawing	Description
•	Start of winding
Marking	181 (Inductance Code)

B Recommended land pattern: [mm]



no vias and traces in restricted area

Scale - 2:1

C Schematic:

FKS
Electronics

D Electrical Properties:

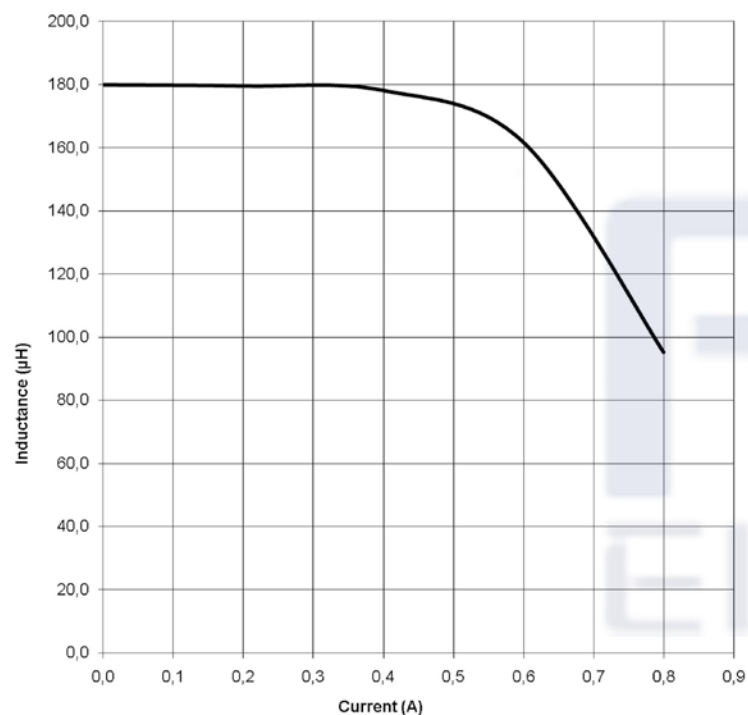
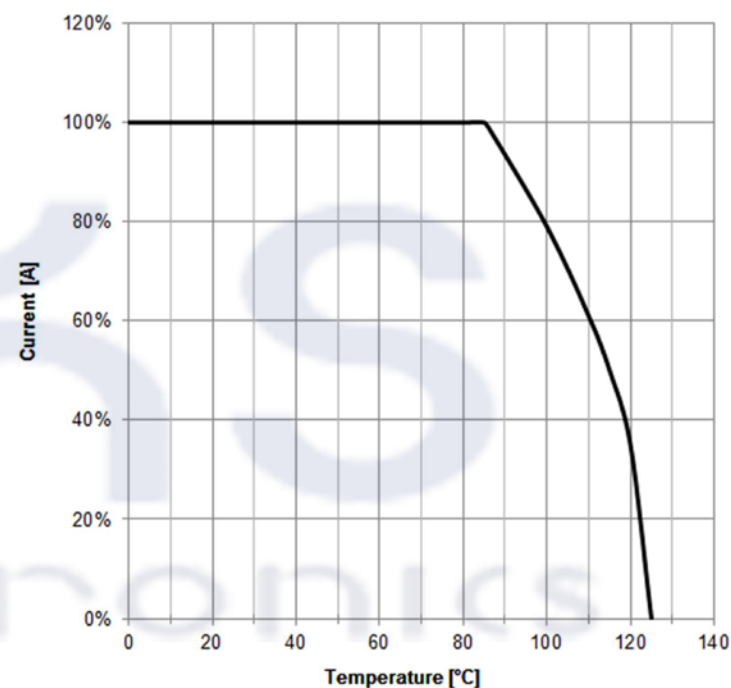
Properties	Test conditions		Value	Unit	Tol.
Inductance	10 KHz/ 100 mV	L	180	μH	±10%
Rated Current	ΔT = 40 K	I _R	0.55	A	max.
Saturation Current	IΔL/LI < 10%	I _{sat}	0.57	A	typ.
DC Resistance	@ 20°C	R _{DC}	0.71	Ω	max.
DC Resistance	@ 20°C	R _{DC}	0.574	Ω	typ.
Self Resonant Freq.	@ 20°C	f _{res}	5	MHz	typ.
Rated Voltage	@ 20°C	U _R	80	V _{DC}	max.

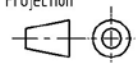
E General information:

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	
	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	
				 		
					DATE	

F1 Typical Inductance vs. Current Characteristics:**F2 Derating Curve:**

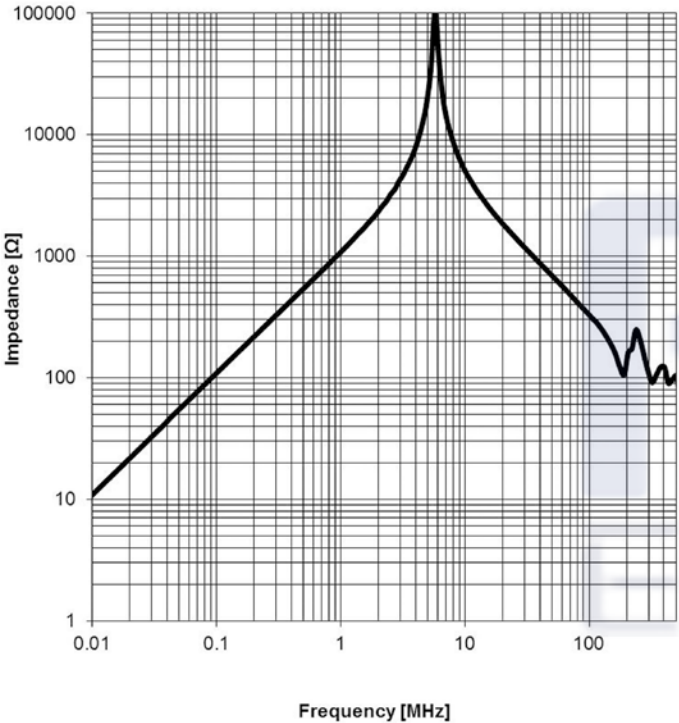
		Projection 		DESCRIPTION SMD Power Inductor	
:	2015-01-07				
		Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913  		Order.- No. FKS784775218	
				 COMPLIANT RoHS&REACH HALOGEN FREE	
DATE				Size: 7850	

SIZE

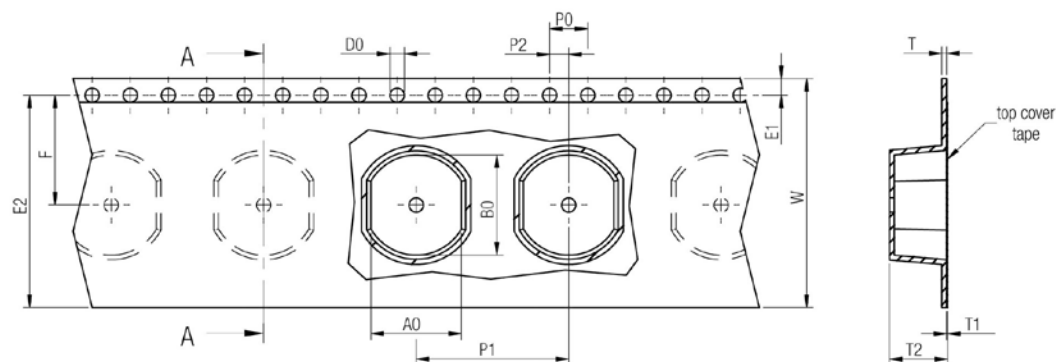
A4



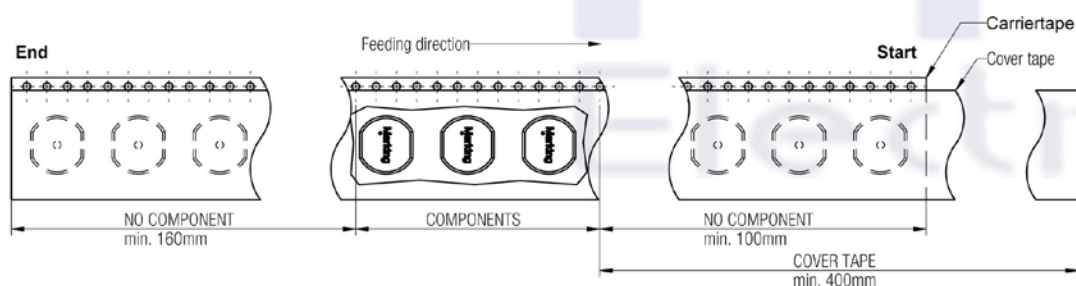
F3 Typical Impedance Characteristics:



				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
						FKS784775218	A4
DATE						Size: 7850	

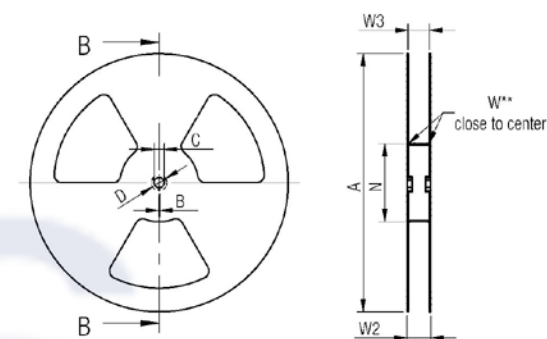


		A0	B0	W	P1	T	T1	T2	D0	E1	E2	F	P0	P2	VPE / packaging unit
tolerance		typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,3 -0,1	± 0,1	min.	± 0,05	± 0,1	± 0,05	
size	4532	4.50	5.50	16.00	8.00	0.25	0.10	4.00	1.50	1.75	14.25	7.50	4.00	2.00	1500
	5848	5.50	6.50	16.00	8.00	0.25	0.10	5.50	1.50	1.75	14.25	7.50	4.00	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

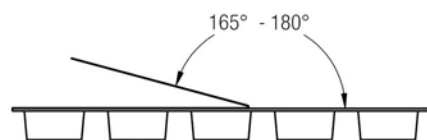
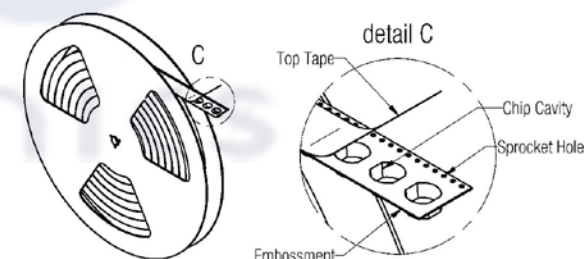


Packaging is referred to the international standard IEC 60286 -3:2007

FKS
Electronics



	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	0,1 N - 1,3 N
	0,1 N - 1,3 N

Projection



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

FKS
Electronics



DESCRIPTION

SMD Power Inductor

Order.- No.

FKS784775218

Size: 7850



SIZE

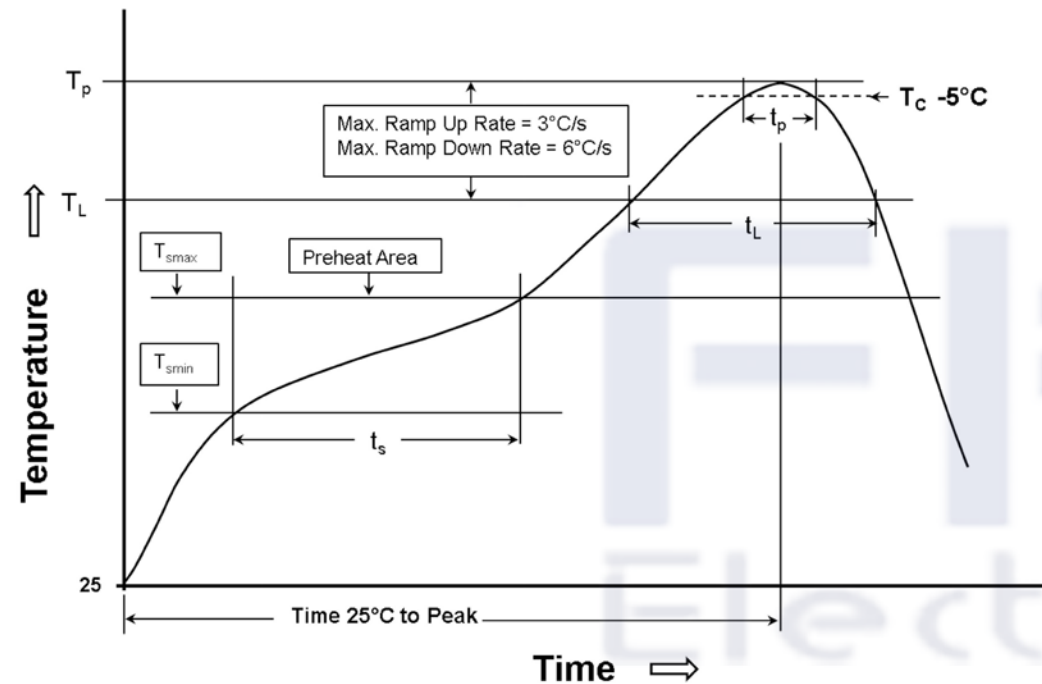
A4

DATE

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		

2015-01-07		Projection 		DESCRIPTION SMD Power Inductor	
		Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(X'ian) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town Xixian New Area,X'ian City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913 			
DATE				Order.- No. FKS784775218	
				Size: 7850	SIZE A4