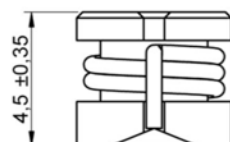
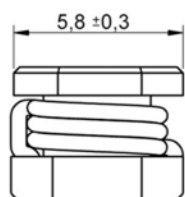
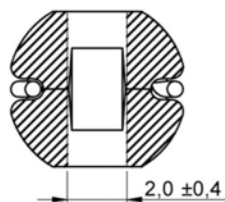


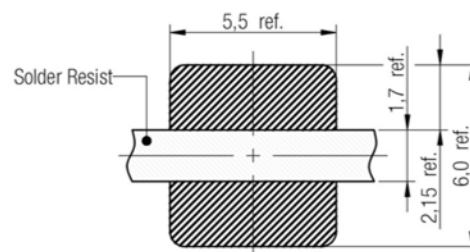
A Dimensions: [mm]



Scale - 4:1

Reference on drawing	Description
•	Start of winding
Marking	220 (Inductance Code)

B Recommended land pattern: [mm]



no vias and traces in restricted area

Scale - 4:1

C Schematic:



D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	10 KHz/ 100 mV	L	22	μH	±20%
Rated Current	ΔT = 40 K	I _R	1.28	A	max.
Saturation Current	IΔL/LI < 10%	I _{sat}	1.53	A	typ.
DC Resistance	@ 20°C	R _{DC}	0.180	Ω	max.
DC Resistance	@ 20°C	R _{DC}	0.109	Ω	typ.
Self Resonant Freq.	@ 20°C	f _{res}	16	MHz	typ.
Rated Voltage	@ 20°C	U _R	80	V _{DC}	max.

E General information:

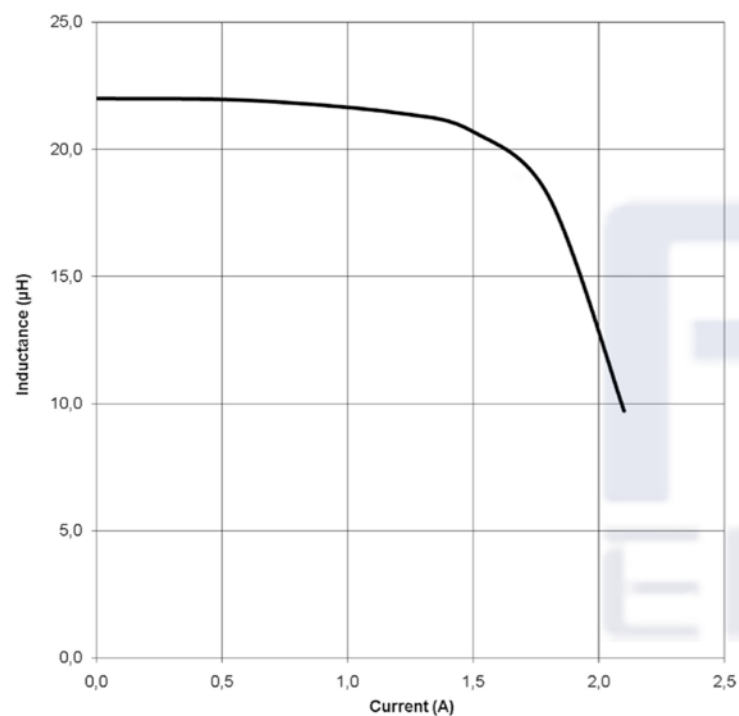
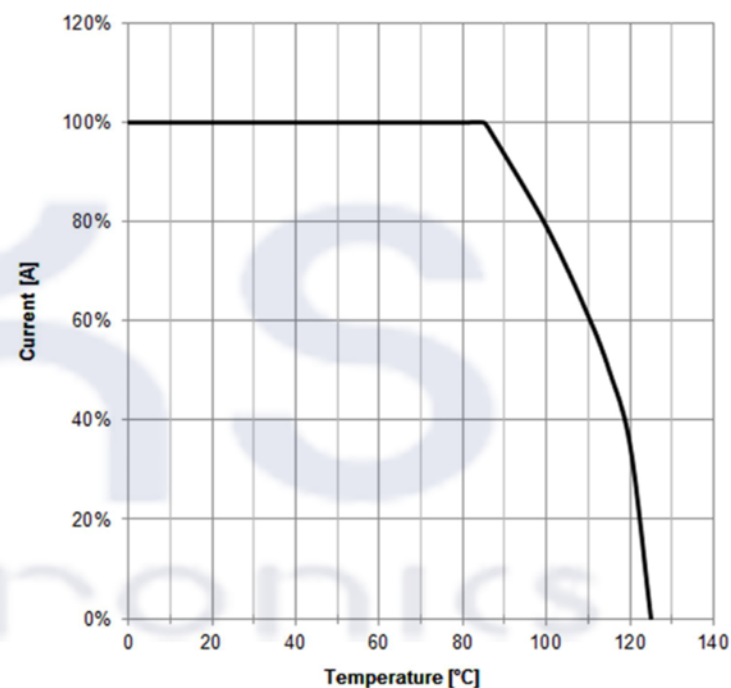
It is recommended that the temperature of the part does not exceed 125°C under worst case operating conditions.

- 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: 120 μm
- Test conditions of Electrical Properties: 20°C, 33% RH
- AEC-Q 200 qualified

				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: +86-29-8888 5333 Fax: +86-29-8888 0913	Order.- No. FKS784774122
					
					Size: 5848
	DATE				

SIZE

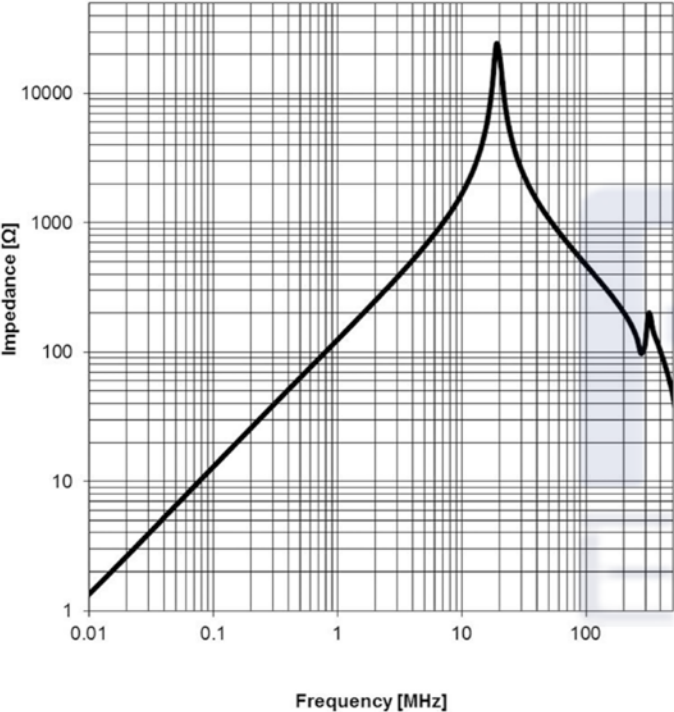
A4

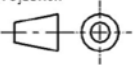

F1 Typical Inductance vs. Current Characteristics:

F2 Derating Curve:


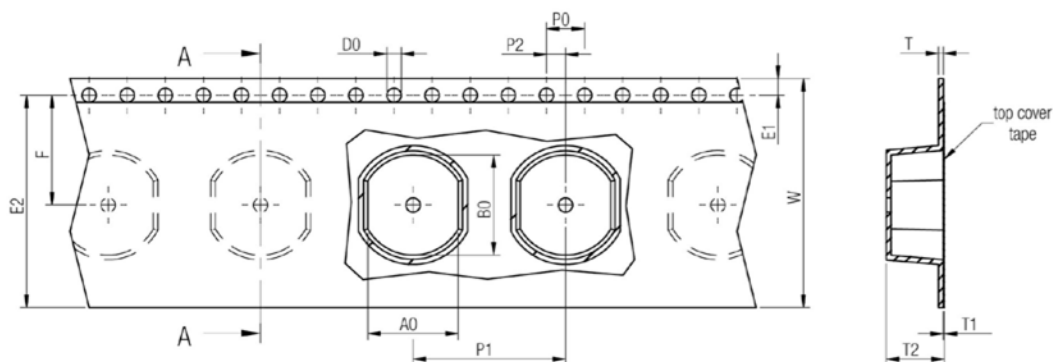
				Projection			DESCRIPTION	SMD Power Inductor	
	2015-01-07								
				Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913		 	Order.- No.	 COMPLIANT RoHS&REACH	SIZE
					FKS784774122		A4		
							Size: 5848		
	DATE								



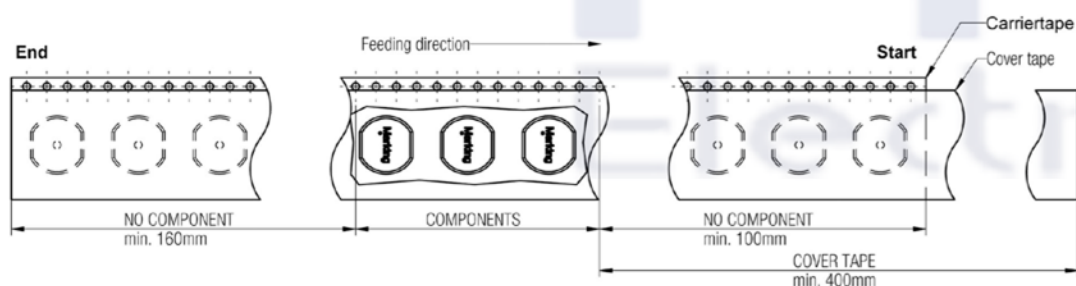
F3 Typical Impedance Characteristics:



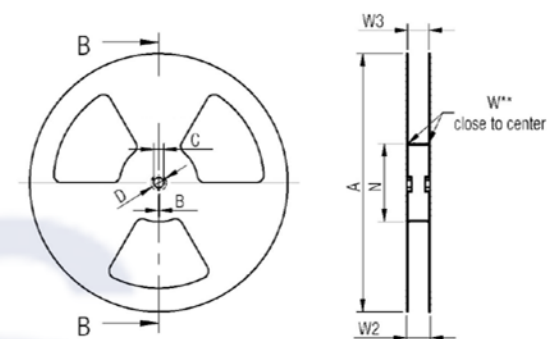
				Projection		DESCRIPTION		
	2015-01-07					SMD Power Inductor		
				Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913		Order.- No.	 COMPLIANT RoHS&REACH	SIZE
						FKS784774122		A4
				 		Size: 5848		
	DATE							

FKS
 Electronics


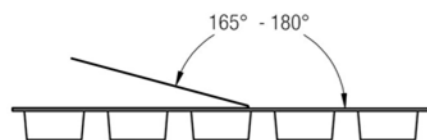
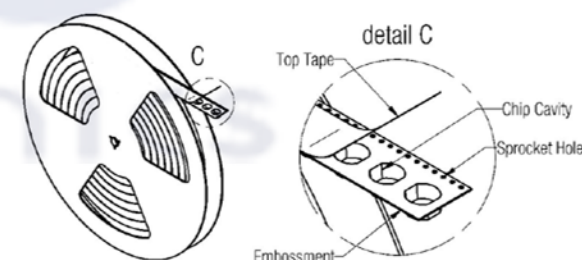
		A0	B0	W	P1	T	T1	T2	D0	E1	E2	F	P0	P2	VPE / packaging unit
tolerance		typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,3 -0,1	± 0,1	min.	± 0,05	± 0,1	± 0,05	
size	4532	4,50	5,50	16,00	8,00	0,25	0,10	4,00	1,50	1,75	14,25	7,50	4,00	2,00	1500
	5848	5,50	6,50	16,00	8,00	0,25	0,10	5,50	1,50	1,75	14,25	7,50	4,00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

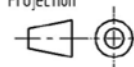


	A	B	C	D	N	W1	W2	W3	W3	
tolerance		min.	± 0,8	min.	min.	+ 1,5	max.	min.	max.	
Tape width	16 mm	330,00	1.50	13,00	20,20	100,00	16,40	22,40	15,90	19,40
	24 mm	330,00	1.50	13,00	20,20	100,00	24,40	30,40	23,90	27,40



	Pull-of force
Tape width	0,1 N - 1,3 N
	0,1 N - 1,3 N

Projection


 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: +86-29-8888 5333
 Fax: +86-29-8888 0913

FKS
 Electronics


DESCRIPTION

SMD Power Inductor

Order.- No.

FKS784774122

Size: 5848



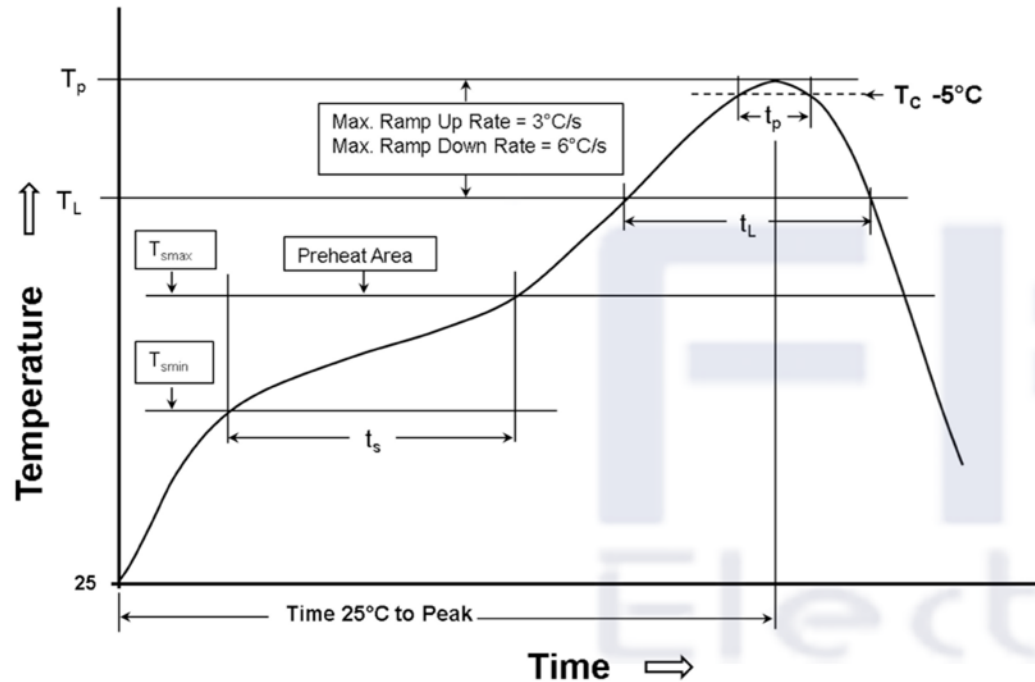
SIZE

A4

H Soldering Specifications:

FKS
Electronics

H1: Classification Reflow Profile for SMT components:



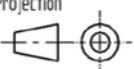
H2: Classification Reflow Profiles

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	
	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	
				FKS Electronics 		Order.- No.		 COMPLIANT RoHS&REACH
						FKS784774122	A4	
	DATE					Size: 5848		