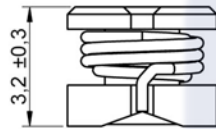
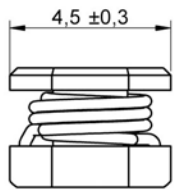
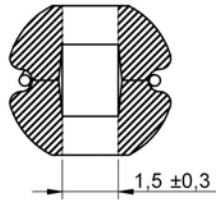




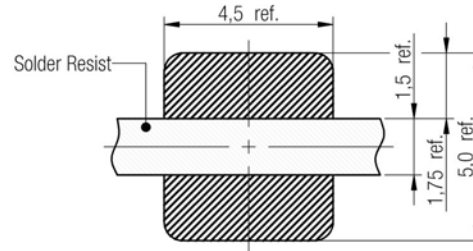
**A Dimensions: [mm]**



Scale - 5:1

Reference on drawing	Description
•	Start of winding
Marking	390 (Inductance Code)

**B Recommended land pattern: [mm]**



no vias and traces in restricted area

Scale - 5:1

**C Schematic:**



**D Electrical Properties:**

Properties	Test conditions		Value	Unit	Tol.
<b>Inductance</b>	10 KHz/ 100 mV	L	39	μH	±10%
<b>Rated Current</b>	ΔT = 40 K	I <sub>R</sub>	0.77	A	max.
<b>Saturation Current</b>	ΔL/L  < 10%	I <sub>sat</sub>	0.87	A	typ.
<b>DC Resistance</b>	@ 20°C	R <sub>DC</sub>	0.587	Ω	max.
<b>DC Resistance</b>	@ 20°C	R <sub>DC</sub>	0.418	Ω	typ.
<b>Self Resonant Freq.</b>	@ 20°C	f <sub>res</sub>	15	MHz	typ.
<b>Rated Voltage</b>	@ 20°C	U <sub>R</sub>	80	V <sub>DC</sub>	max.

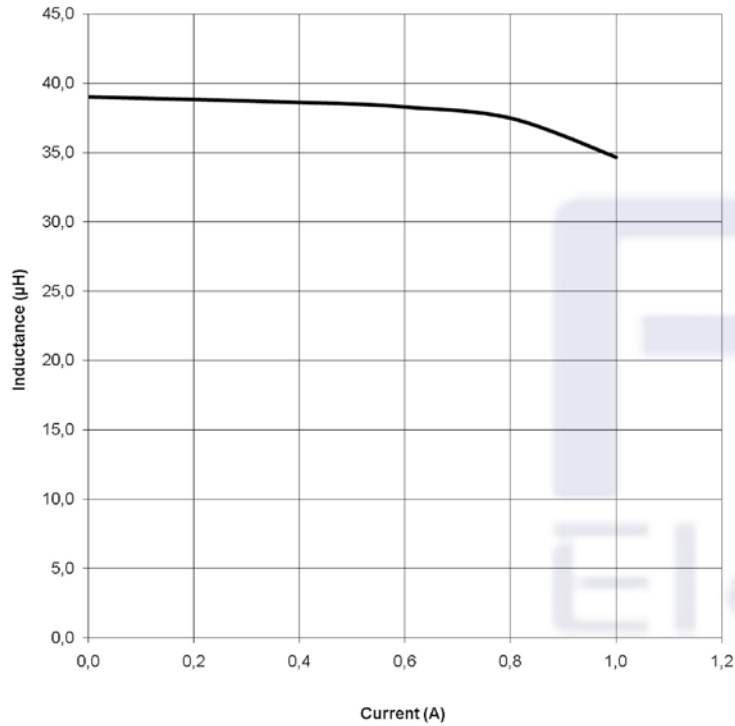
**E General information:**

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

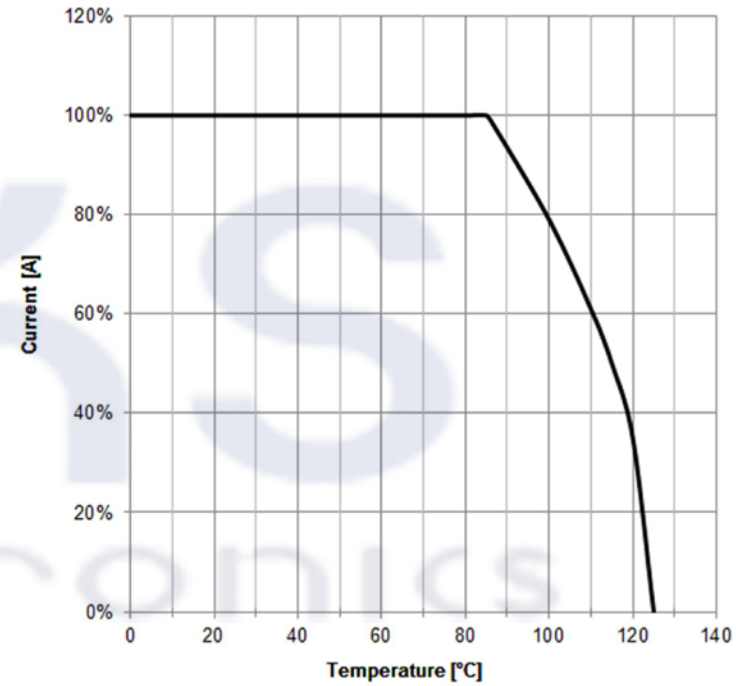
- Ambient temperature: -40°C to +85°C (referring to I<sub>R</sub>)
- Operating temperature: -40°C to +125°C
- Storage temperature (on tape & reel): -20°C to +40°C; 75% RH max.
- Coplanarity of the terminal pads: 120μm
- Test conditions of Electrical Properties: 20°C, 33% RH
- AEC-Q 200 qualified

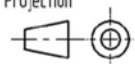



2014-02-18	Projection	DESCRIPTION
		<b>Flexible Transformer for DC/DC Converter</b>
	Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913	Order.- No. FKS784773139
DATE		SIZE A4
		Size: ER11/5

**F1 Typical Inductance vs. Current Characteristics:**



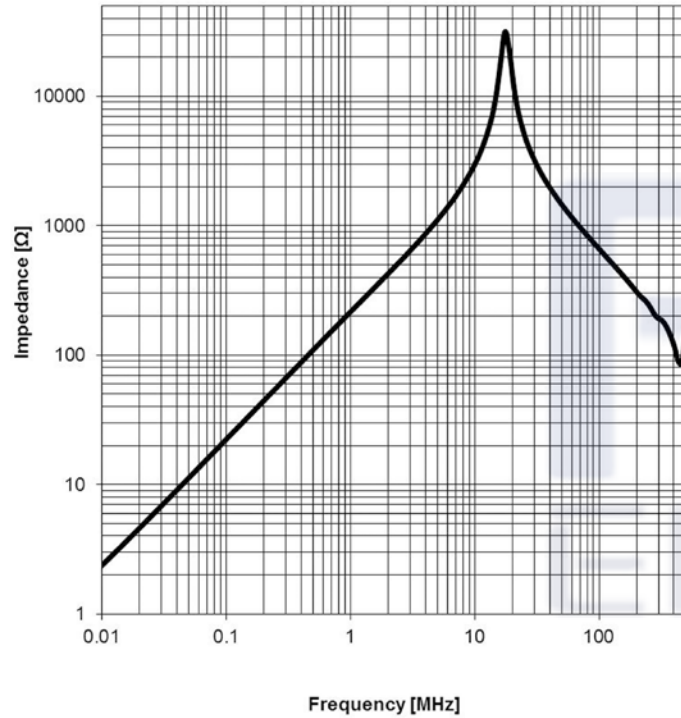
**F2 Derating Curve:**



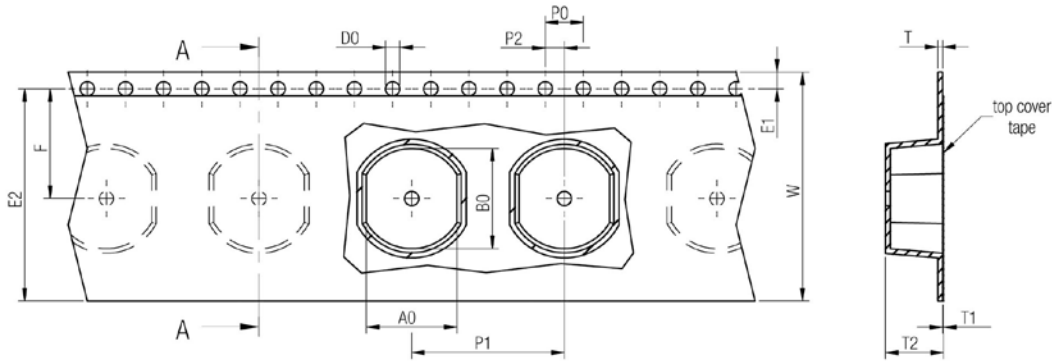
				Projection 		DESCRIPTION
	2014-02-18					<b>Flexible Transformer for DC/DC Converter</b>
				Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(X'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913		Order.- No. <b>FKS784773139</b>
				 		
						SIZE A4
	DATE					Size: ER11/5



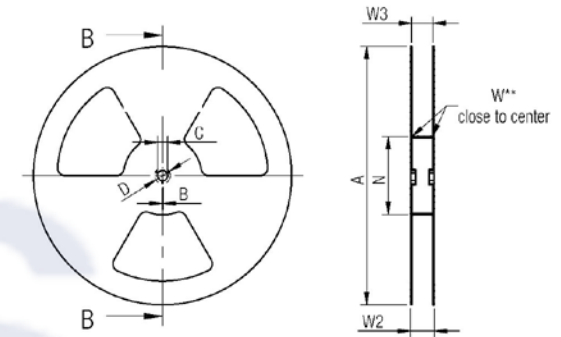
**F3 Typical Impedance Characteristics:**



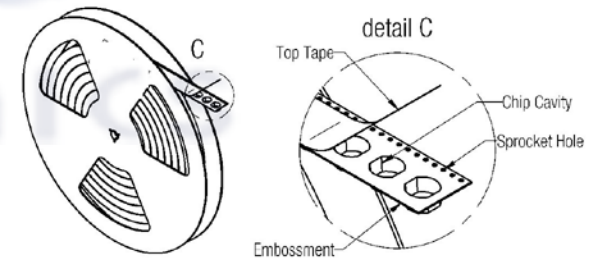
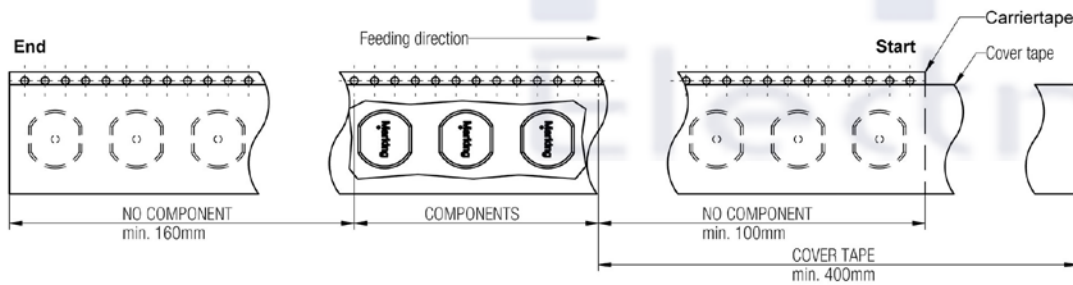
				Projection 		DESCRIPTION		
	2014-02-18					<b>Flexible Transformer for DC/DC Converter</b>		
				Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(X'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town, Xixian New Area,X'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913		Order.- No.		SIZE
						FKS784773139		A4
	DATE					Size: ER11/5		



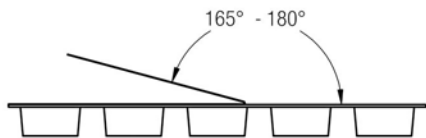
		A0	B0	W	P1	T	T1	T2	D0	E1	E2	F	P0	P2	VPE / packaging unit
tolerance		typ.	typ.	+0,3 -0,1	± 0,1	± 0,1	max.	typ.	+0,3 -0,1	± 0,1	min.	± 0,05	± 0,1	± 0,05	
size	4532	4,50	5,50	16,00	8,00	0,25	0,10	4,00	1,50	1,75	14,25	7,50	4,00	2,00	1500
	5848	5,50	6,50	16,00	8,00	0,25	0,10	5,50	1,50	1,75	14,25	7,50	4,00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



		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



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



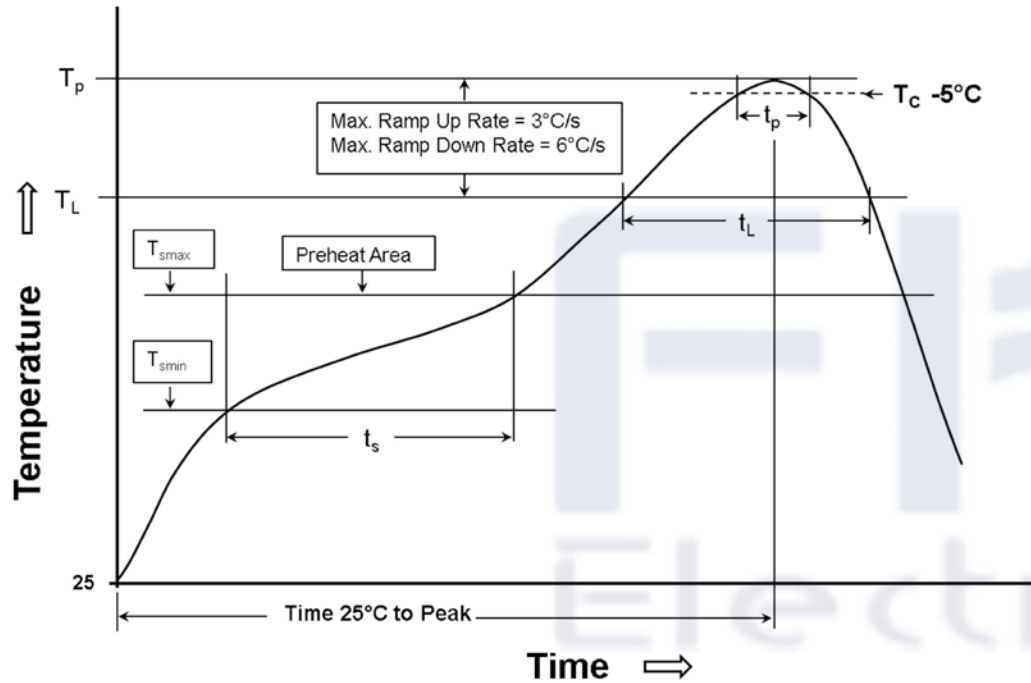
		Pull-of force
Tape width	16 mm	0,1 N - 1,3 N
	24 mm	0,1 N - 1,3 N

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DATE		Size: ER11/5
		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 <sup>3</sup> <350	Volume mm <sup>3</sup> >350	Volume mm <sup>3</sup> 350 - 2000	Volume mm <sup>3</sup> >2000
<b>PB-Free Assembly</b>	< 1.6 mm	260°C		260°C	260°C
<b>PB-Free Assembly</b>	1.6 - 2.5 mm	260°C		250°C	245°C
<b>PB-Free Assembly</b>	> 2.5 mm	250°C		245°C	245°C
<b>Sn-Pb Assembly</b>	< 2.5 mm	235°C	220°C		
<b>Sn-Pb Assembly</b>	≥ 2.5 mm	220°C	220°C		

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