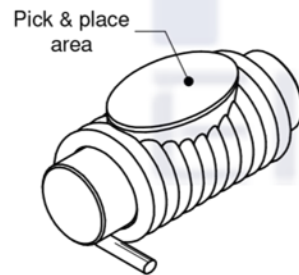
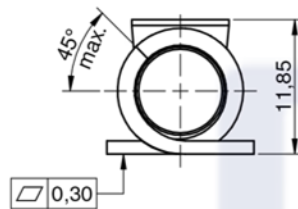
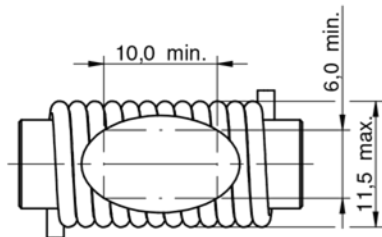
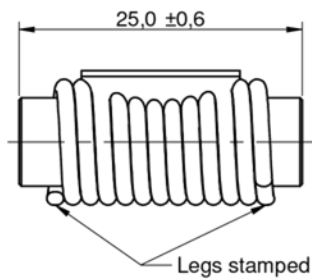
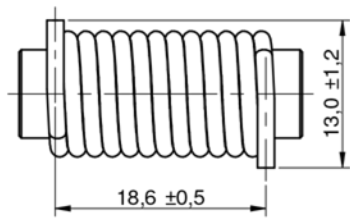
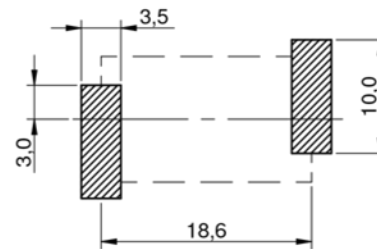


Dimensions: [mm]



Scale - 1,5:1

Recommended Land Pattern: [mm]



Scale - 1,5:1

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	1 V/ 1 kHz	4.45	μH	±20%
Rated Current	I _R	ΔT = 40 K	12	A	max.
Saturation Current	I _{SAT}	ΔL/L < 10 %	45	A	typ.
DC Resistance	R _{DC}	@ 20 °C	3.8	mΩ	±20%
Self Resonant Frequency	f _{res}		40	MHz	typ.

Certification:

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACH Approval	Conform or declared [(EC)1907/2006]

General Information:

It is recommended that the temperature of the component does not exceed +150°C under worst case conditions

Ambient Temperature (referring to I _R)	-40 up to +110 °C
Operating Temperature	-40 up to +150 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1

Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently



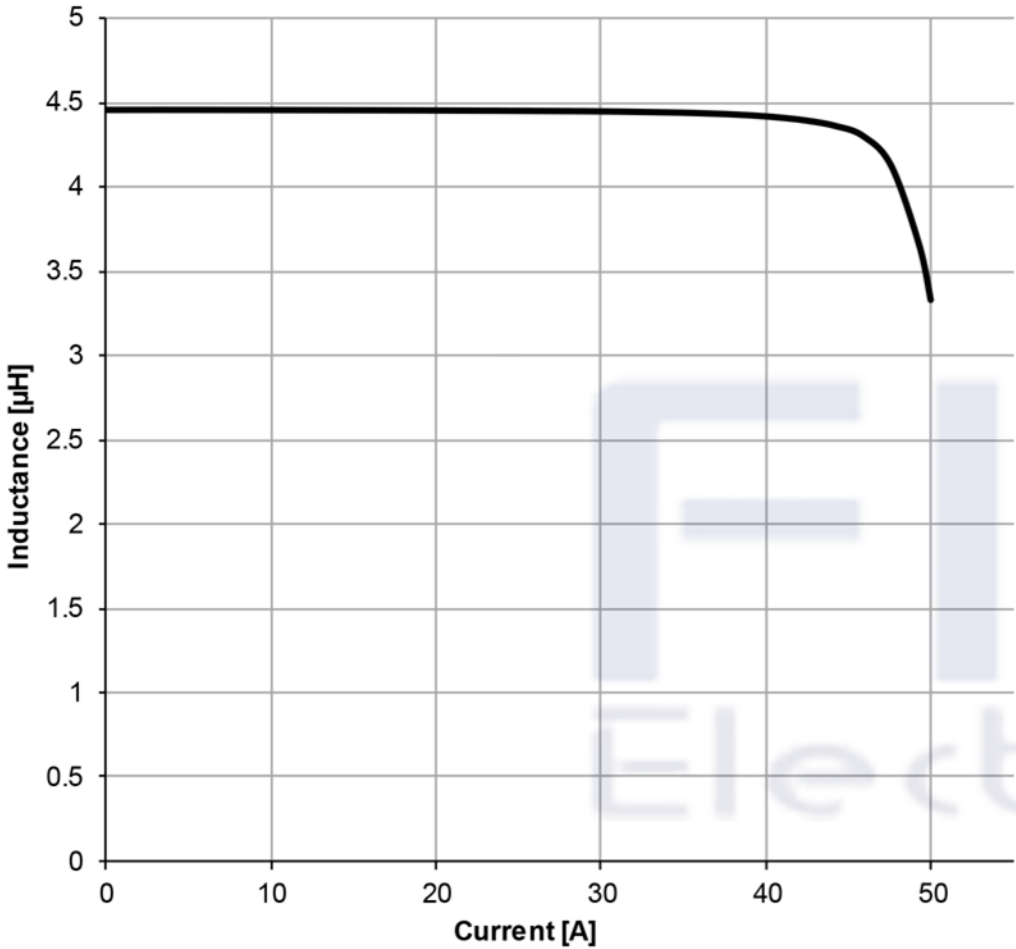
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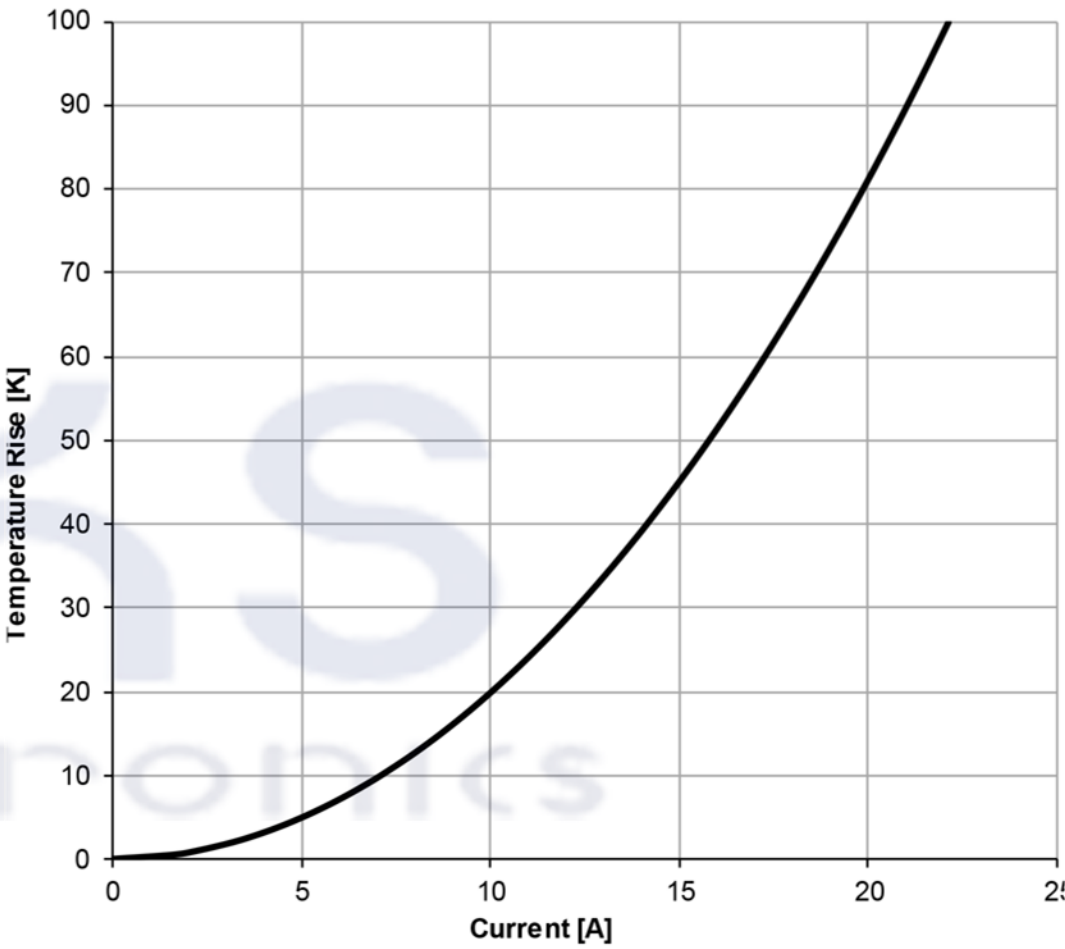
Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.
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Xixian New Area, Xianyang City, Shaanxi Province, China.
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[Http://www.fks-tech.com](http://www.fks-tech.com)

DATE (YYYY-MM-DD)	2019-02-13	GENERAL TOLERANCE	DIN ISO 2768-1m	PROJECTION METHOD	
DESCRIPTION	Rod Core Inductor SMT				ORDER CODE
					FKS7847232045
					STATUS
					Valid

Typical Inductance vs. Current Characteristics:

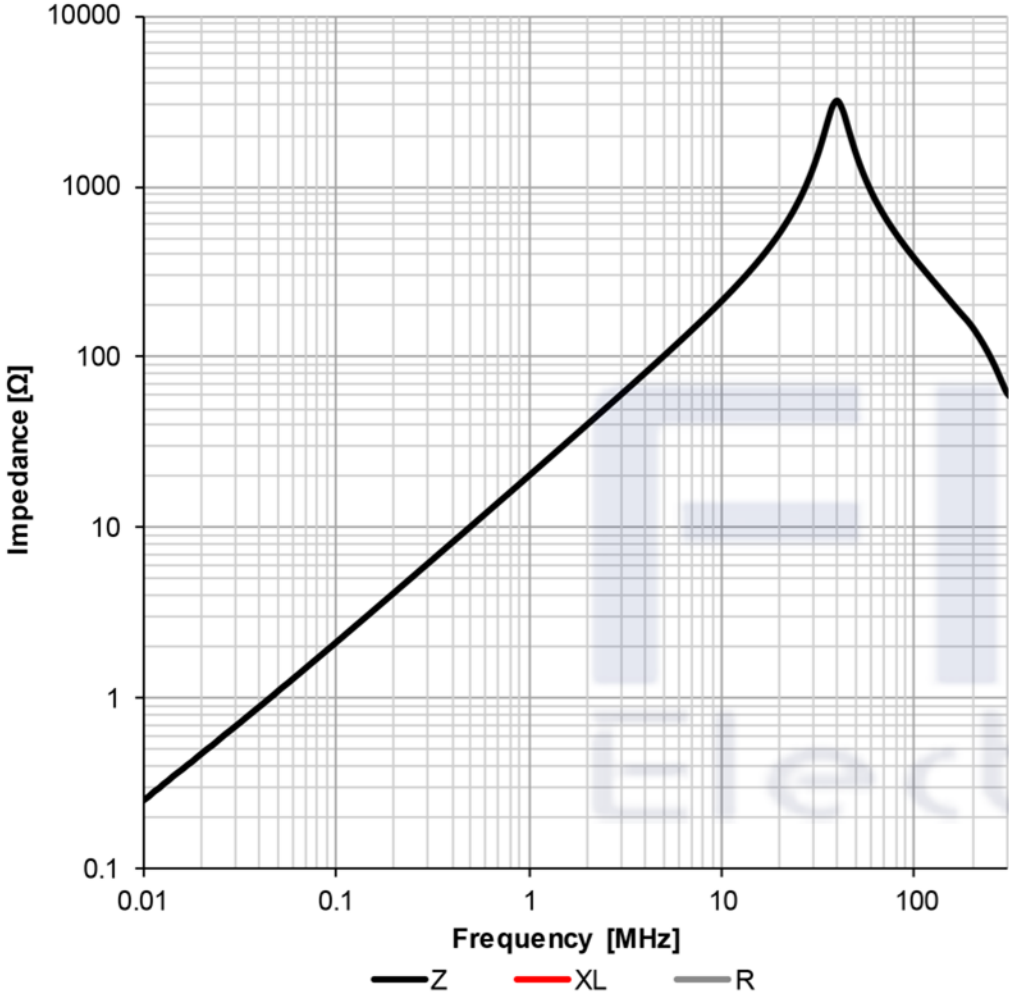


Typical Temperature Rise vs. Current Characteristics



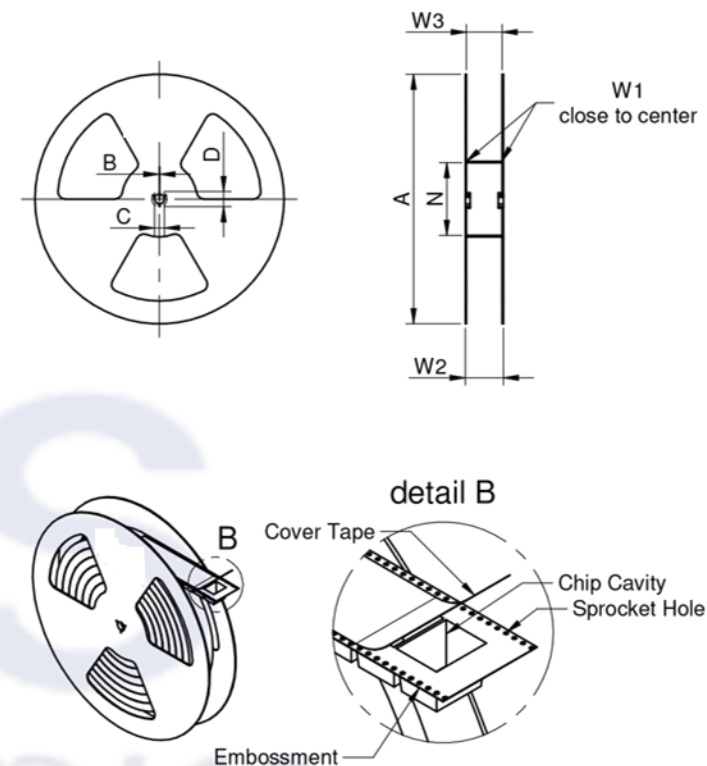
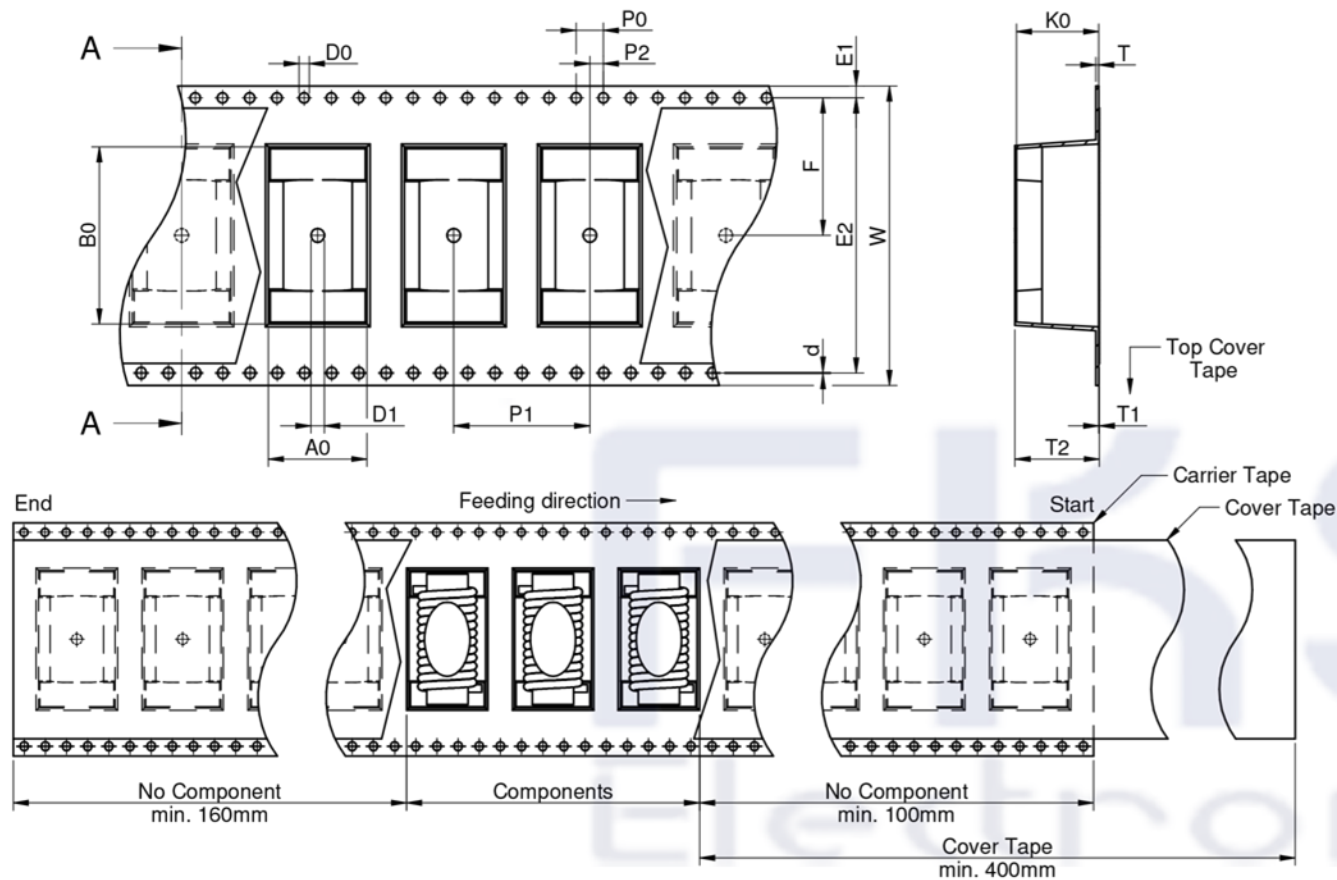
 		Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. Address:Building B1,The West Cloud Valley, Fengxi New City, Xixian New Area,Xianyang City,Shaanxi Province,China. Tel:0086 29 8868 5333 Fax:0086 29 8868 0913 Http://www.fks-tech.com		DATE (YYYY-MM-DD) 2019-02-13	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
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Typical Impedance Characteristics:



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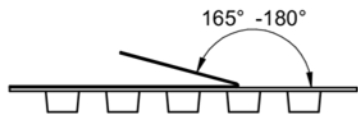
Packaging Specification - Tape and Reel: [mm]



Packaging is referred to the international standard IEC 60286-3:2013

Tape Type	A0 (mm)	B0 (mm)	W (mm)	T (mm)	T1 (mm)	T2 (mm)	K0 (mm)	P0 (mm)	P1 (mm)	P2 (mm)	D0 (mm)	D0 / 2 (mm)	D1 (mm)	d (mm)	E (mm)	S (mm)	F (mm)	Material	Qty. (pcs.)
3	typ.	typ.	±0,3	ref.	max.	typ.	typ.	±0,1	±0,1	±0,15	+0,1/-0,0	+0,05/-0,0	min.	±0,05	±0,1	±0,1	±0,1	Polystyrene	220
	14,50	26,00	44,00	0,40	0,10	12,25	12,00	4,00	20,00	2,00	1,50	0,75	2,00	0,20	1,75	40,40	20,20		

A (mm)	B (mm)	C (mm)	D (mm)	N (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W3 (mm)	Material
± 2,0	min.	min.	min.	min.	+ 2,0	max.	min.	max.	Polystyrene/ Polyurethane
330,00	1,50	12,80	20,20	80,00	44,40	50,40	43,90	47,40	

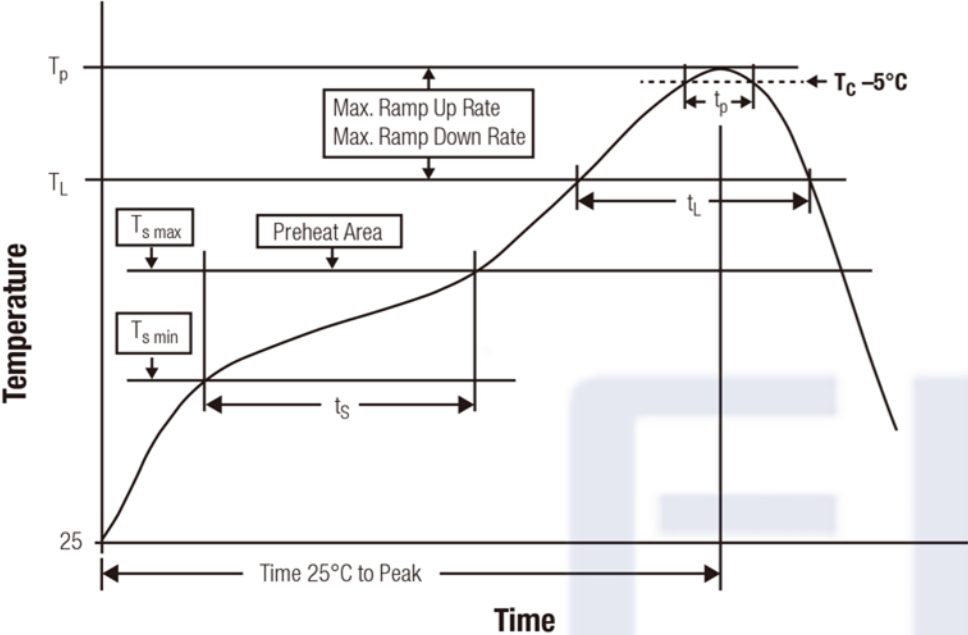


Pull-of force		
Tape width	44 mm	0,1 N - 1,3 N

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DESCRIPTION Rod Core Inductor SMT		ORDER CODE FKS7847232045
		STATUS Valid

Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min	$T_{s\ min}$	150 °C
Preheat Temperature Max	$T_{s\ max}$	200 °C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	t_s	60 - 120 seconds
Ramp-up Rate (T_L to T_P)		3 °C/ second max.
Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	60 - 150 seconds
Peak package body temperature	T_P	see table below
Time within 5°C of actual peak temperature	t_p	20 - 30 seconds
Ramp-down Rate (T_L to T_P)		6 °C/ second max.
Time 25°C to peak temperature		8 minutes max.

refer to IPC/ JEDEC J-STD-020E

Package Classification Reflow Temperature:

Properties	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
PB-Free Assembly I Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly I Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly I Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C

refer to IPC/ JEDEC J-STD-020E

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				STATUS Valid	