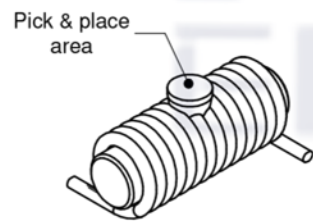
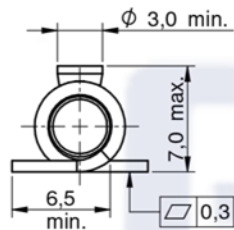
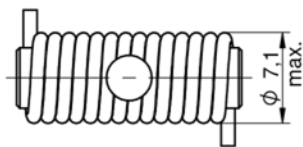
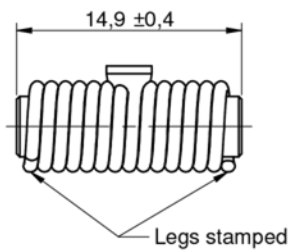
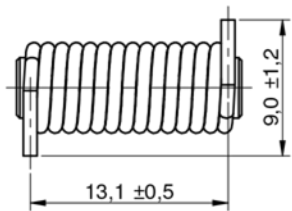
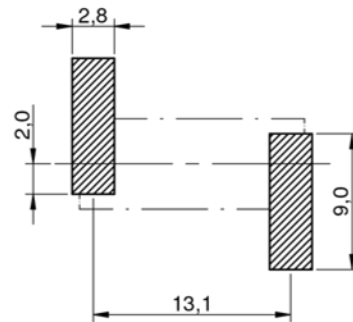


Dimensions: [mm]



Scale - 2:1

Recommended Land Pattern: [mm]



Scale - 2:1

Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	1 V/ 1 kHz	2.72	μH	±20%
Rated Current	I _R	ΔT = 40 K	10	A	max.
Saturation Current	I _{SAT}	ΔL/L < 10 %	18	A	typ.
DC Resistance	R _{DC}	@ 20 °C	6.4	mΩ	±20%
Self Resonant Frequency	f _{res}		120	MHz	typ.

Certification:

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

General Information:

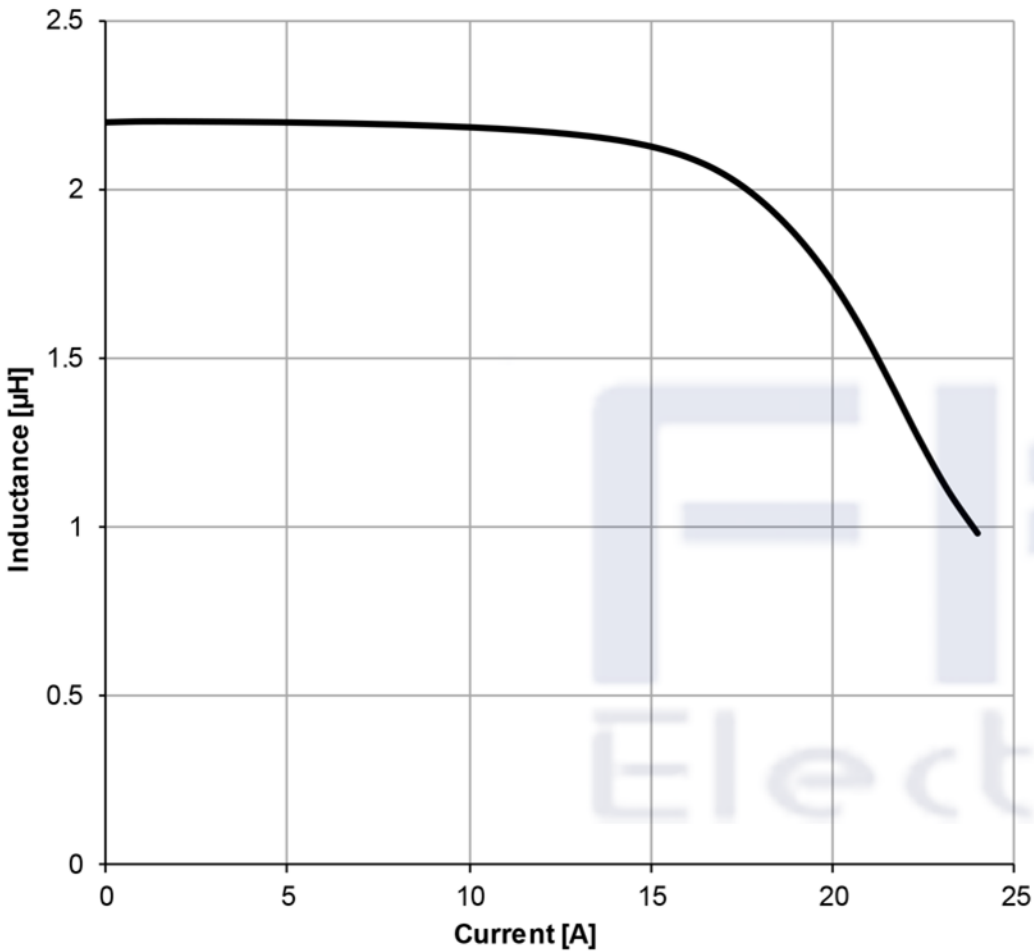
It is recommended that the temperature of the component does not exceed +150°C under worst case conditions	
Ambient Temperature (referring to I _R)	-40 up to +110 °C
Operating Temperature	-40 up to +150 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	



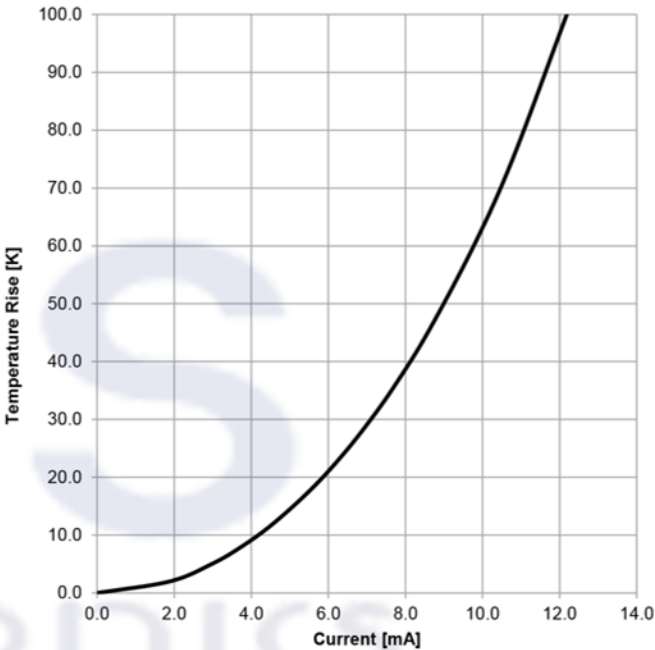
Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.
Address:Building B1,The West Cloud Valley, Fengxi New City
Xixian New Area,Xianyang City,Shaanxi Province,China.
Tel:0086 29 8868 5333 Fax:0086 29 8868 0913
[Http://www.fks-tech.com](http://www.fks-tech.com)

DATE (YYYY-MM-DD)	2019-02-13	GENERAL TOLERANCE	DIN ISO 2768-1m	PROJECTION METHOD	
DESCRIPTION		Rod Core Inductor SMT		ORDER CODE	
				FKS7847227027	
				STATUS	Valid

Typical Inductance vs. Current Characteristics:

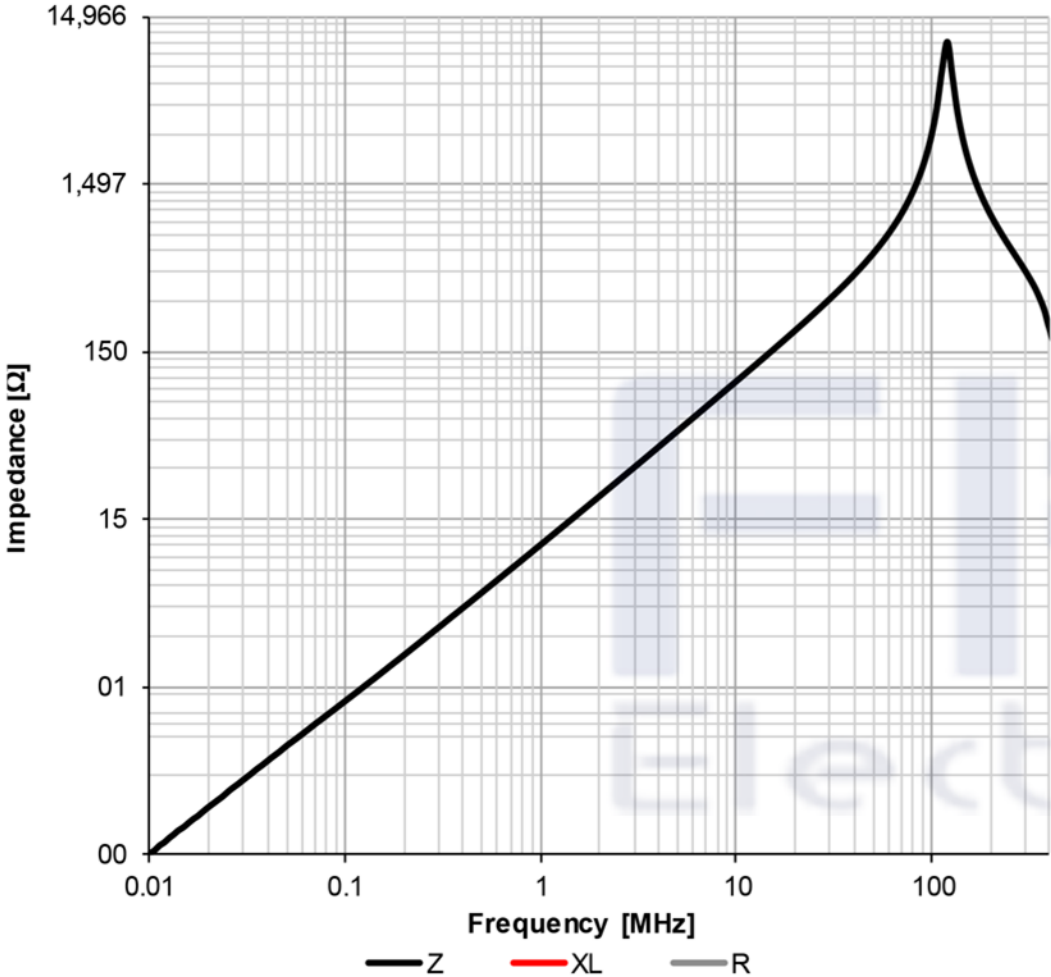


Typical Temperature Rise vs. Current Characteristics



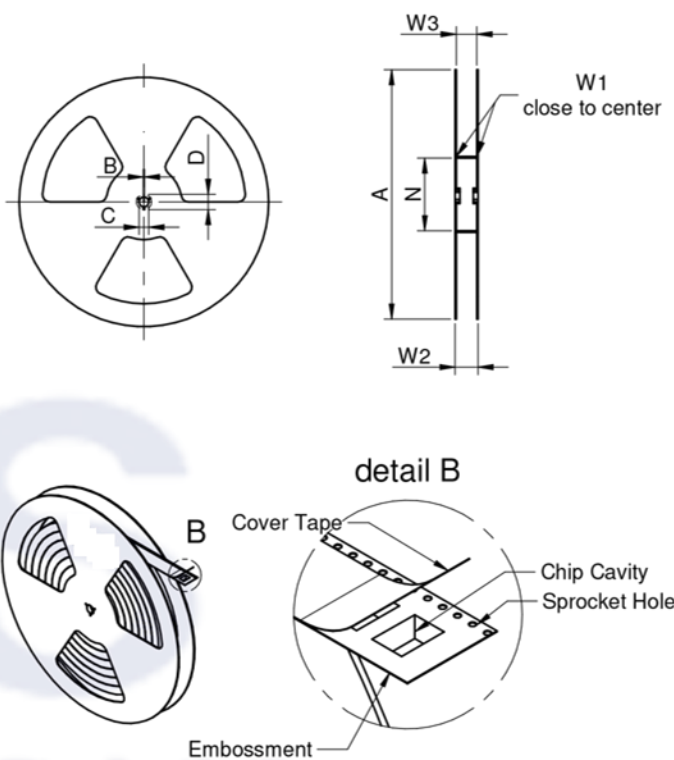
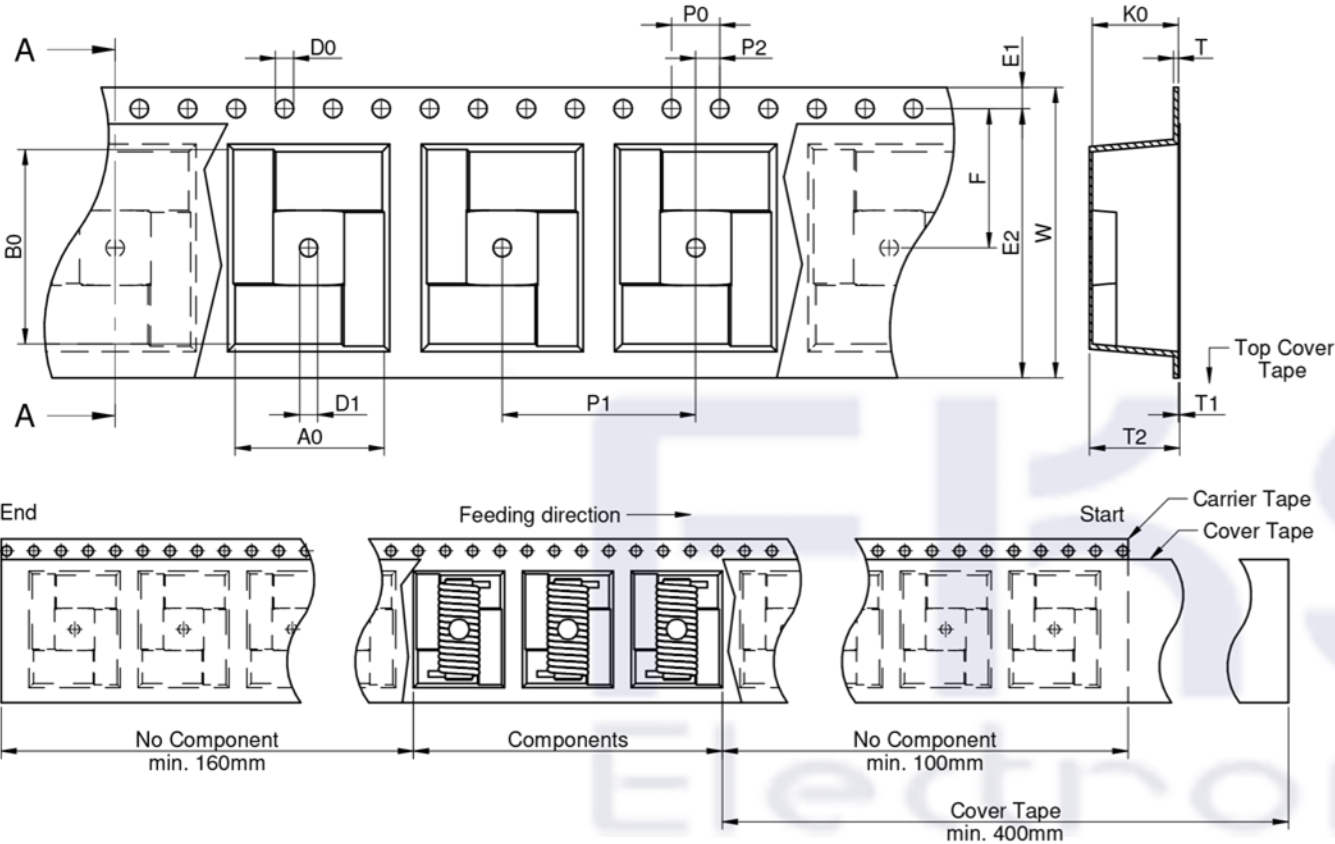
 125 °C GRADE 1		DATE (YYYY-MM-DD) 2019-02-13	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
 Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. Address:Building B1,The West Cloud Valley, Fengxi New City, Xixian New Area,Xianyang City,Shaanxi Province,China. Tel:0086 29 8868 5333 Fax:0086 29 8868 0913 Http://www.fks-tech.com		DESCRIPTION Rod Core Inductor SMT		ORDER CODE FKS7847227027
				STATUS Valid

Typical Impedance Characteristics:



RoHS COMPLIANT REACH COMPLIANT AEC Q200 125 °C GRADE 1		DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD	
		2019-02-13	DIN ISO 2768-1m		
DESCRIPTION		Rod Core Inductor SMT			
FKS electronics  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		ORDER CODE			
		FKS7847227027			
		STATUS			
		Valid			

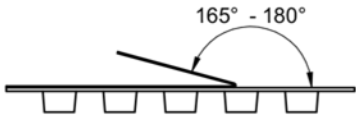
Packaging Specification - Tape and Reel: [mm]



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)	D1 (mm)	E1 (mm)	E2 (mm)	F (mm)	Material	Qty. (pcs.)
2a	typ. 11,80	typ. 15,80	+0,3/-0,1 24,00	ref. 0,40	max. 0,10	typ. 8,05	typ. 7,80	±0,1 4,00	±0,1 16,00	±0,1 2,00	+0,1/-0,0 1,50	min. 1,50	±0,1 1,75	min. 22,25	±0,1 11,50	Polystyrene	510

A (mm)	B (mm)	C (mm)	D (mm)	N (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W3 (mm)	Material
± 2,0	min.	min.	min.	± 2,0	+ 2,0	max.	min.	max.	Polystyrene/ Polyurethane
330,00	1,50	12,80	20,20	60,00	24,40	30,40	23,90	27,40	

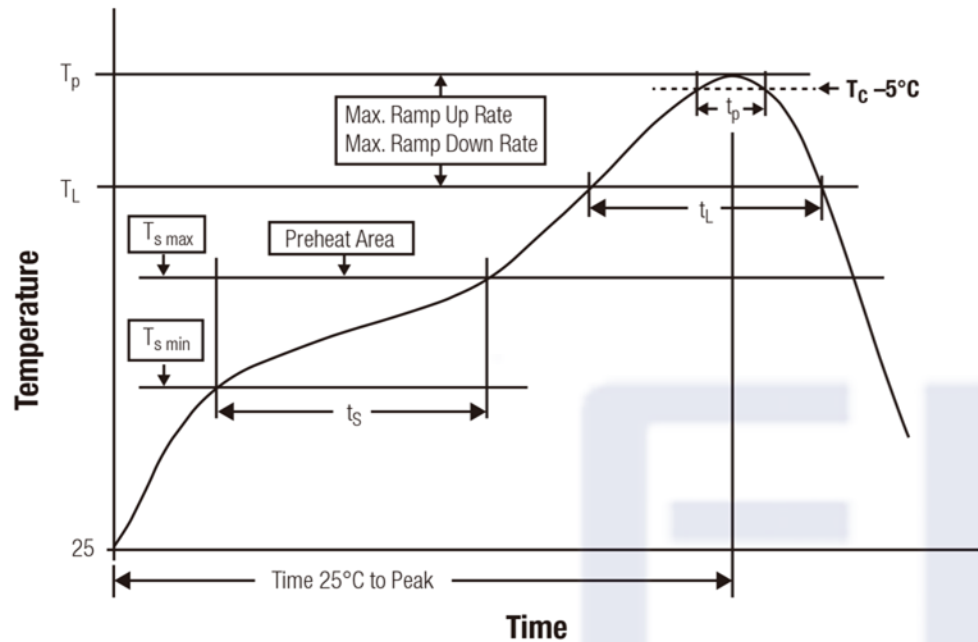


Tape width	24 mm	Pull-of force
		0,1 N - 1,3 N

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DATE (YYYY-MM-DD) 2019-02-13	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION Rod Core Inductor SMT		
ORDER CODE FKS7847227027		
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 Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C

refer to IPC/ JEDEC J-STD-020E

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	DESCRIPTION Rod Core Inductor SMT		ORDER CODE FKS7847227027	
			STATUS Valid	