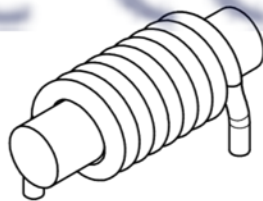
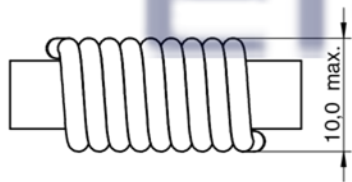
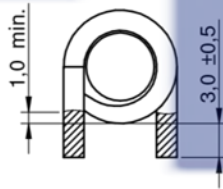
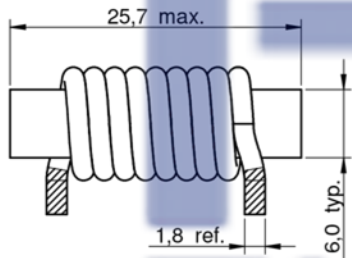
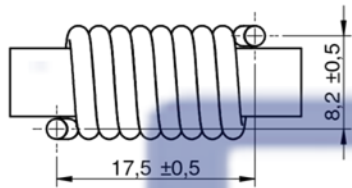
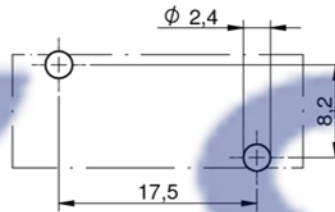


**Dimensions: [mm]**



Scale - 1,5:1

**Recommended Hole Pattern: [mm]**



Scale - 1,5:1

**Schematic:**



**Electrical Properties:**

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	0.25 V/ 100 kHz	2	μH	±25%
Rated Current	I <sub>R</sub>	ΔT = 40 K	15	A	max.
Saturation Current	I <sub>SAT</sub>	ΔL/L  < 10 %	34	A	typ.
DC Resistance	R <sub>DC</sub>	@ 20 °C	1.7	mΩ	±20%
Self Resonant Frequency	f <sub>res</sub>		120	MHz	

**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 <sub>R</sub> )	-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	

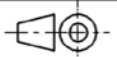


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DATE (YYYY-MM-DD)  
2019-06-18

GENERAL TOLERANCE  
DIN ISO 2768-1m

PROJECTION METHOD



DESCRIPTION

**Rod Core Inductor THT**

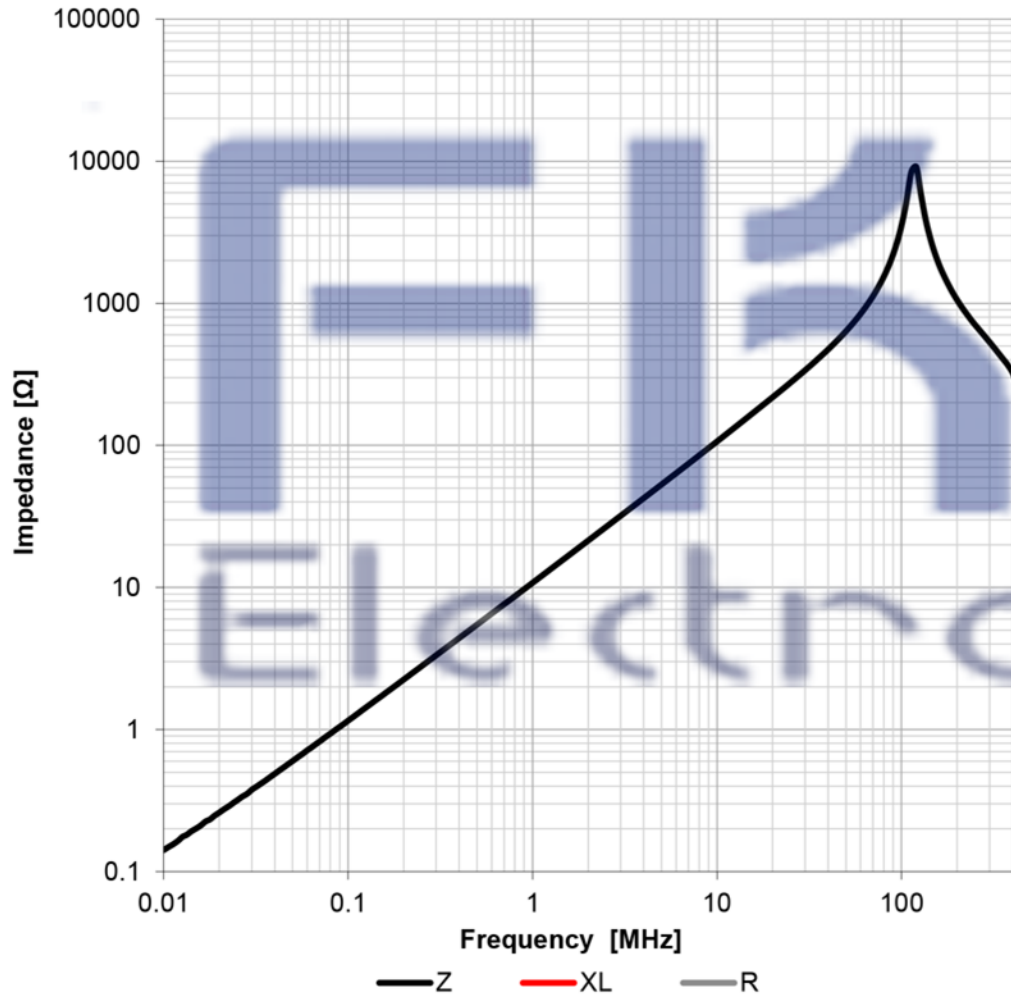
ORDER CODE

**FKS7847131020**

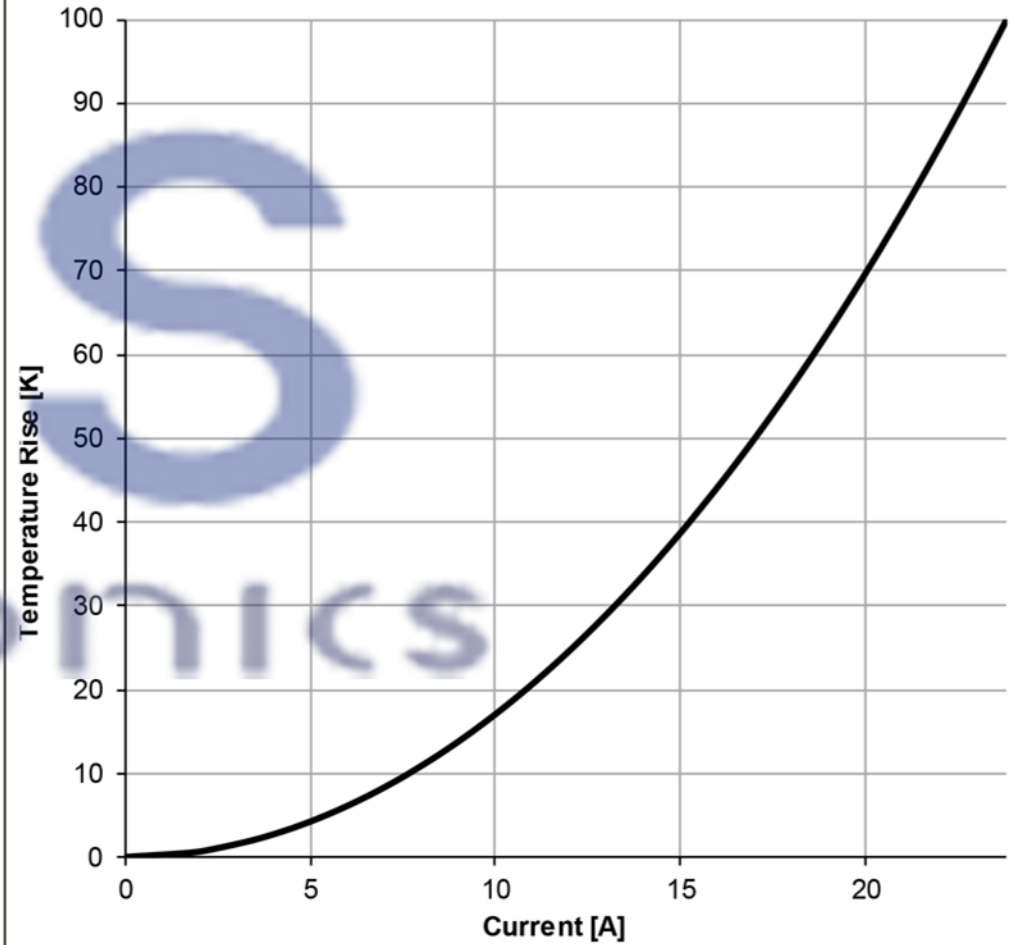
STATUS  
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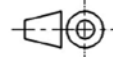


1

### Typical Impedance Characteristics:

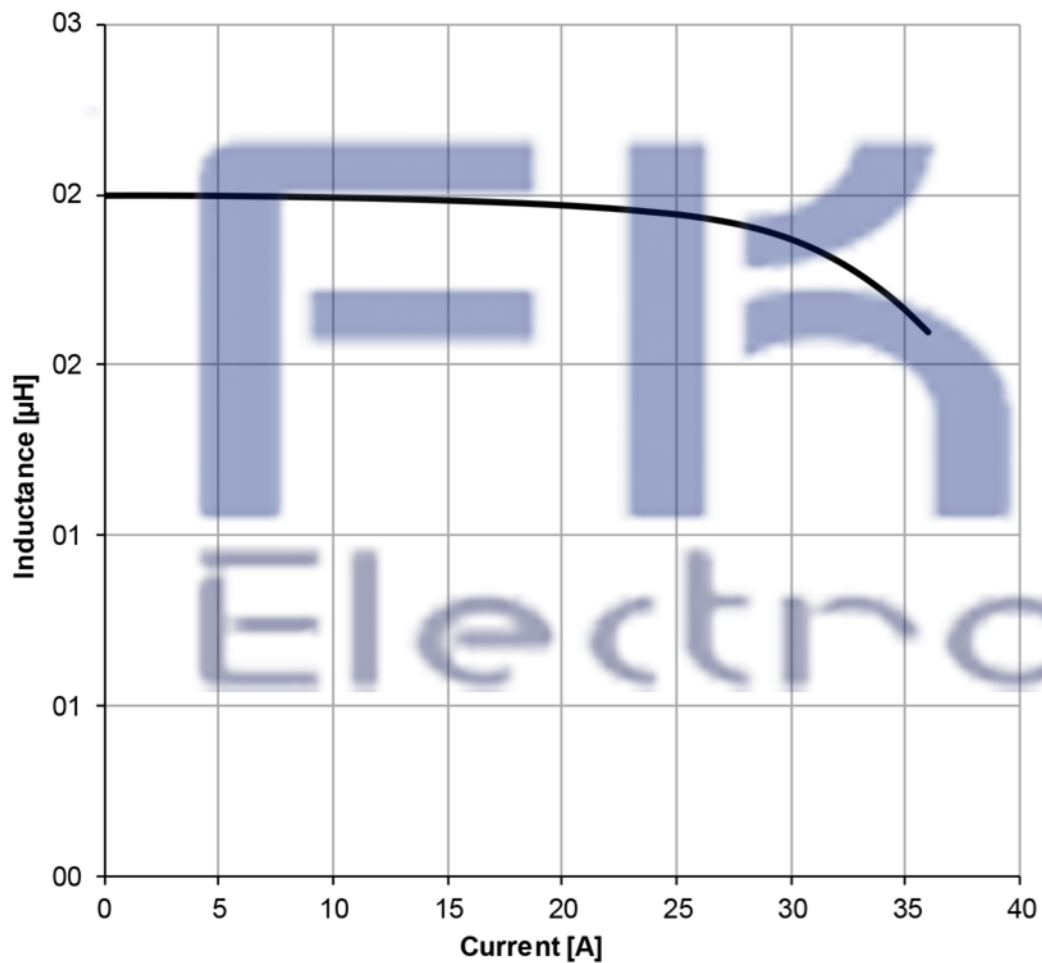





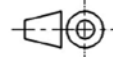


### Typical Temperature Rise vs. Current Characteristics:



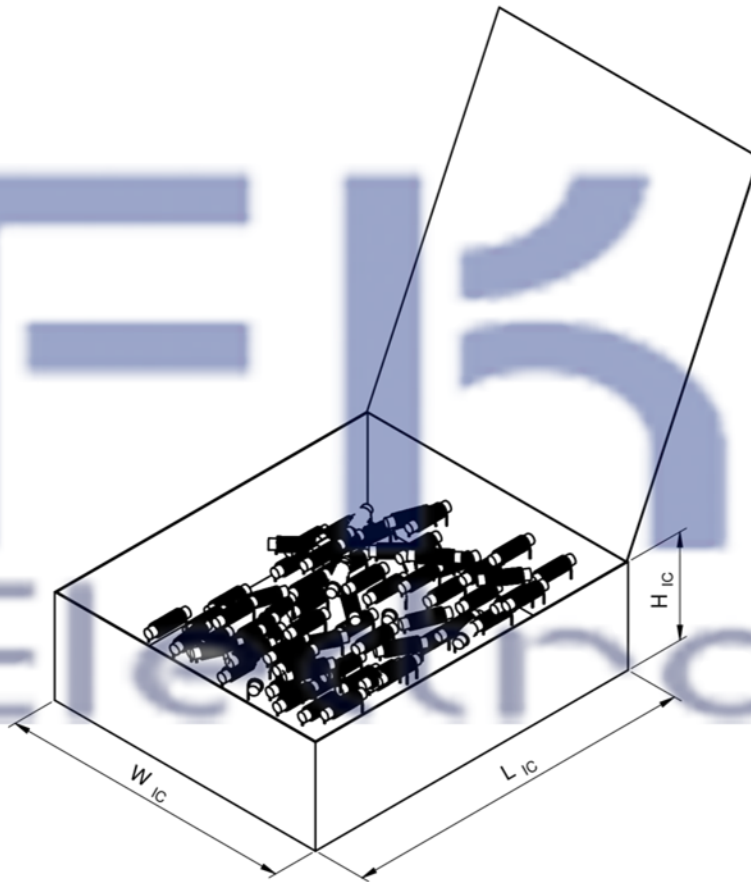
  	DATE (YYYY-MM-DD) 2019-06-18	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
	DESCRIPTION <b>Rod Core Inductor THT</b>		ORDER CODE <b>FKS7847131020</b>
  Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. Address:Building B1,The West Cloud Valley, Fengxi New City, Xixian New Area,Xianyang City,Shaanxi Province,China. Tel:0086 29 8868 5333 Fax:0086 29 8868 0913 <a href="http://www.fks-tech.com">Http://www.fks-tech.com</a>			STATUS Valid

**Typical Inductance vs. Current Characteristics:**

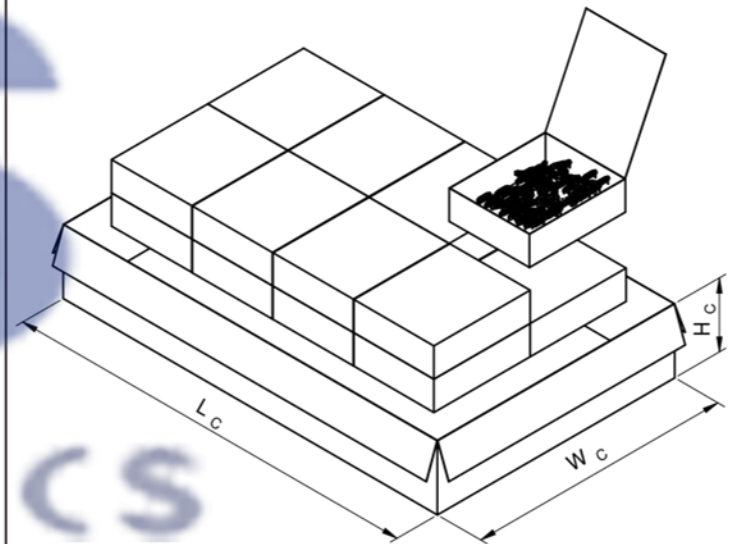


  	DATE (YYYY-MM-DD) 2019-06-18	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
	DESCRIPTION <b>Rod Core Inductor THT</b>		ORDER CODE <b>FKS7847131020</b>
  Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. Address:Building B1,The West Cloud Valley, Fengxi New City, Xixian New Area,Xianyang City,Shaanxi Province,China. Tel:0086 29 8868 5333 Fax:0086 29 8868 0913 <a href="http://www.fks-tech.com">Http://www.fks-tech.com</a>			STATUS Valid







Packaging Specification - Tape and Reel: [mm]



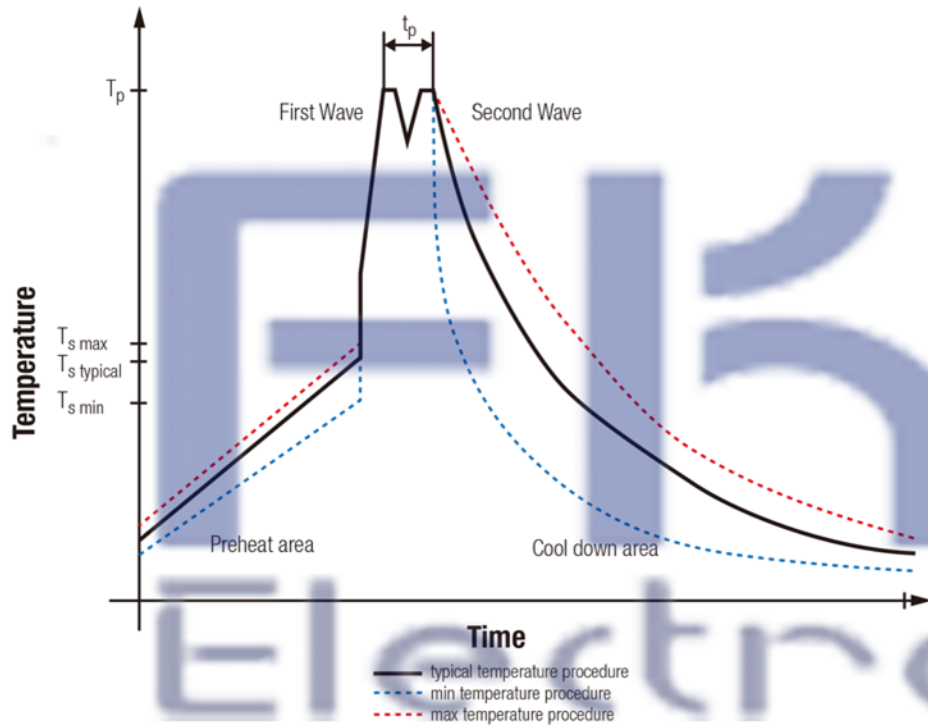
L <sub>ic</sub> (mm)	W <sub>ic</sub> (mm)	H <sub>ic</sub> (mm)	Qty. (pcs.)	Material
typ.	typ.	typ.		
150,00	125,00	45,00	250	Paper



L <sub>c</sub> (mm)	W <sub>c</sub> (mm)	H <sub>c</sub> (mm)	No. of Inner Carton (pcs.)	Qty. (pcs.)	Material
typ.	typ.	typ.			
584,00	370,00	100,00	16	4000	Paper

  	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
	2019-06-18	DIN ISO 2768-1m	
  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 <a href="http://www.fks-tech.com">Http://www.fks-tech.com</a>	DESCRIPTION		ORDER CODE
	<b>Rod Core Inductor THT</b>		<b>FKS7847131020</b>
		STATUS	---
		Valid	

### Classification Wave Soldering Profile:



### Classification Wave Soldering Profile:

Profile Feature		Pb-Free Assembly	Sn-Pb Assembly
Preheat Temperature Min	$T_{s \min}$	100 °C	100 °C
Preheat Temperature Typical	$T_{s \text{ typical}}$	120 °C	120 °C
Preheat Temperature Max	$T_{s \max}$	130 °C	130 °C
Preheat Time $t_s$ from $T_{s \min}$ to $T_{s \max}$	$t_s$	70 seconds	70 seconds
Ramp-up Rate	$\Delta T$	150 °C max.	150 °C max.
Peak Temperature	$T_p$	250 °C - 260 °C	235 °C - 260 °C
Time of actual peak temperature	$t_p$	max. 10 seconds max. 5 seconds each wave	max. 10 seconds max. 5 seconds each wave
Ramp-down Rate, Min		~ 2 K/ second	~ 2 K/ second
Ramp-down Rate, Typical		~ 3.5 K/ second	~ 3.5 K/ second
Ramp-down Rate, Max		~ 5 K/ second	~ 5 K/ second
Time 25 °C to 25 °C		4 minutes	4 minutes

refer to EN61760-1:2006

		DATE (YYYY-MM-DD) 2019-06-18	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
		<b>DESCRIPTION</b> <b>Rod Core Inductor THT</b>		<b>ORDER CODE</b> <b>FKS7847131020</b>
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 <a href="http://www.fks-tech.com">Http://www.fks-tech.com</a>		STATUS Valid		