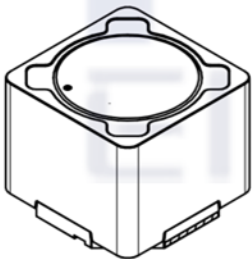
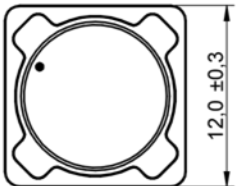
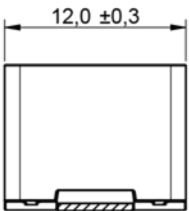
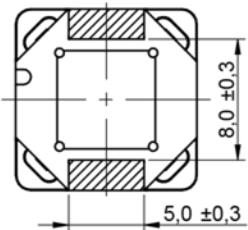


Dimensions: [mm]

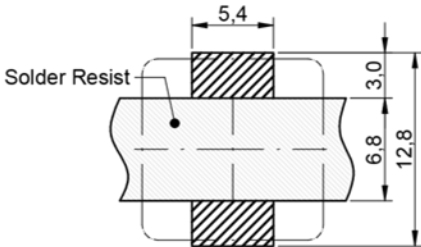


Scale - 2:1

Product Marking:

Start of Winding	•
Marking	*220 (Inductance Code)

Recommended Land Pattern: [mm]



No vias and traces in restricted area

Scale - 2:1

Schematic:



Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	100 kHz/ 250 mV	22	µH	±20%
Rated Current	I _R	ΔT = 40 K	4.3	A	max.
Saturation Current	I _{SAT}	ΔL/Li < 10 %	5	A	typ.
DC Resistance	R _{DC}	@ 20 °C	37	mΩ	typ.
DC Resistance	R _{DC}	@ 20 °C	44	mΩ	max.
Self Resonant Frequency	f _{res}		11	MHz	typ.

Certification:

RoHS Approval	Compliant [2011/65/EU&2015/863]
REACH Approval	Conform or declared [(EC)1907/2006]
Halogen Free	Conform [JEDEC JS709B]
Halogen Free	Conform [IEC 61249-2-21]

General Properties:

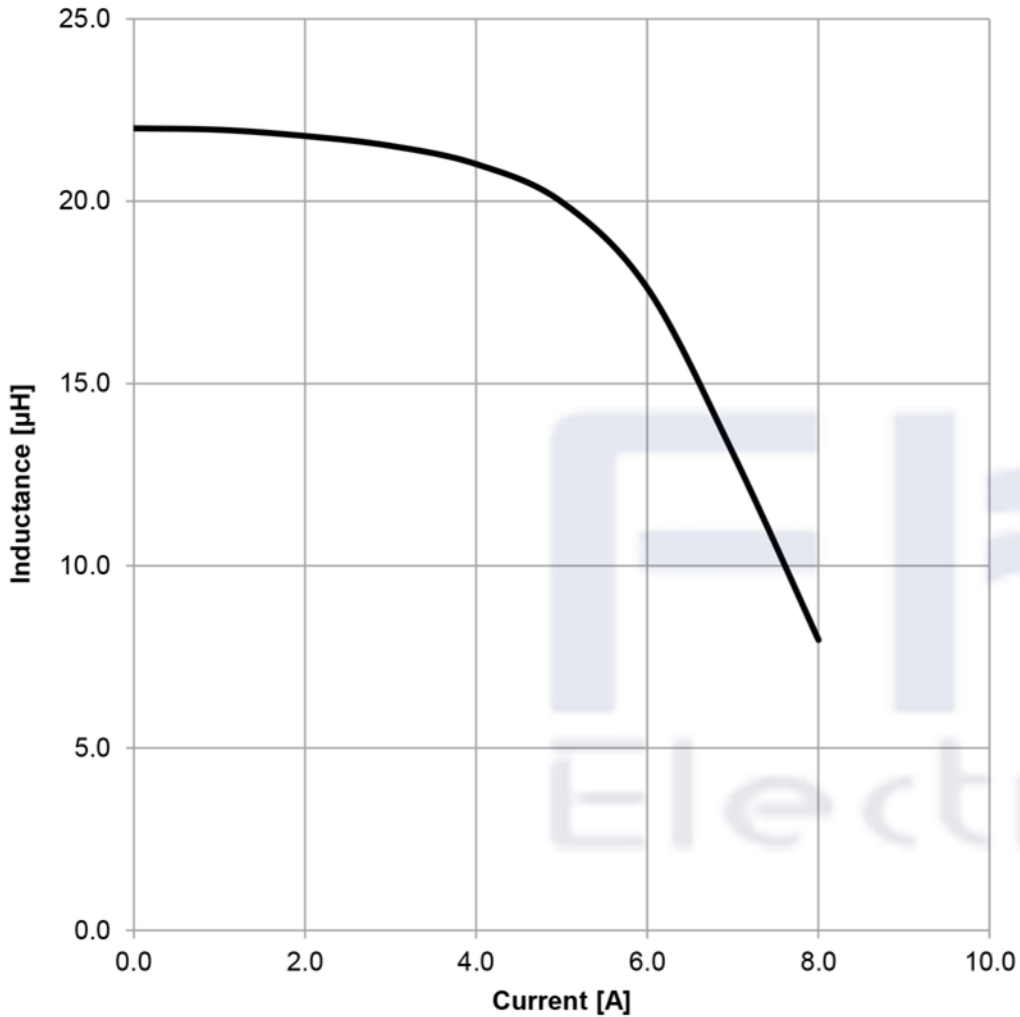
It is recommended that the temperature of the component does not exceed +125 °C under worst case conditions	
Ambient Temperature (referring to I _R)	-40 up to +85 °C
Operating Temperature	-40 up to +125 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 °C RH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	
Coplanarity of the terminal pads: 120 µm	



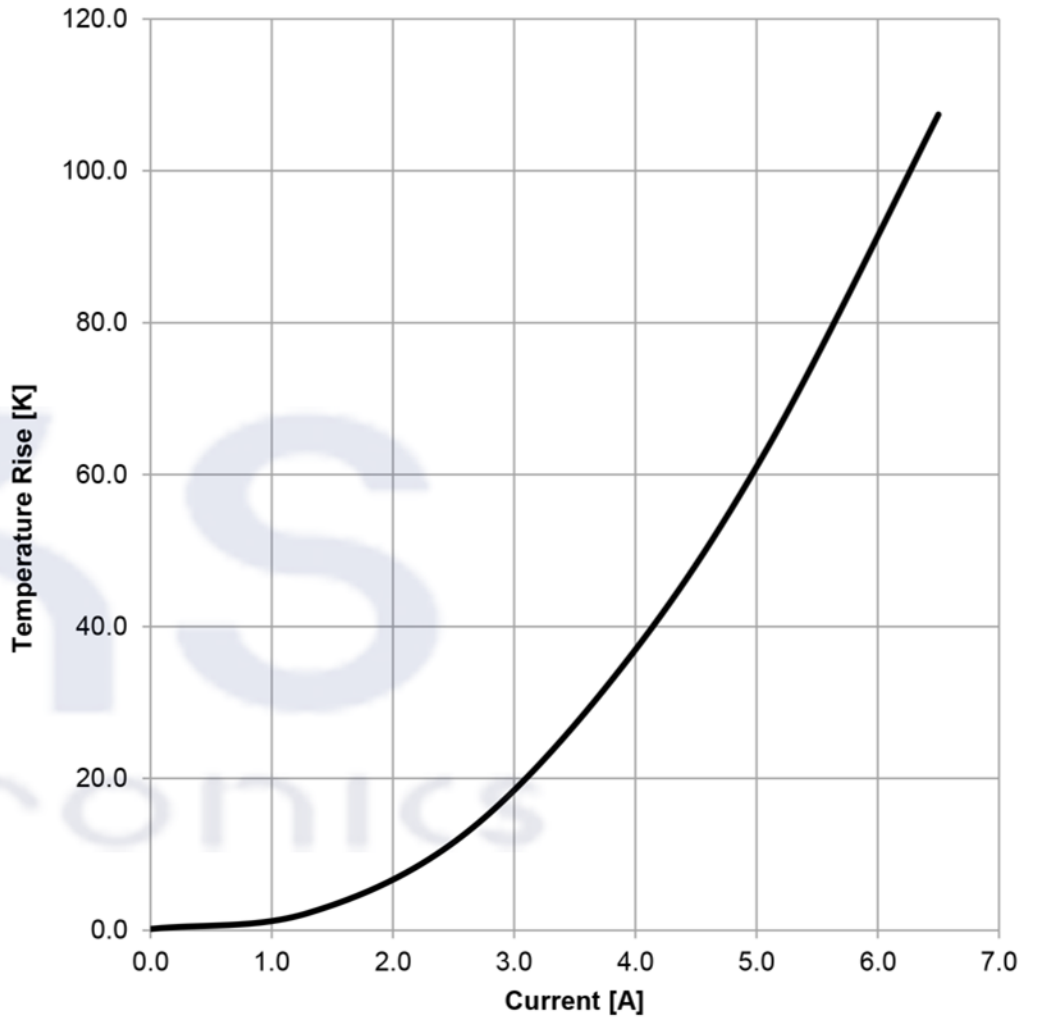
Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.
Address:Building B1,The West Cloud Valley, Fengxi New City
Xixian New Area,Xianyang City,Shaanxi Province,China.
Tel:0086 29 8868 5333 Fax:0086 29 8868 0913
[Http://www.fks-tech.com](http://www.fks-tech.com)

DATE (YYYY-MM-DD) 2019-02-15	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION SMT Shielded Power Inductor		ORDER CODE FKS7847709220
SIZE/TYPE 1210		STATUS Valid

Typical Inductance vs. Current Characteristics:

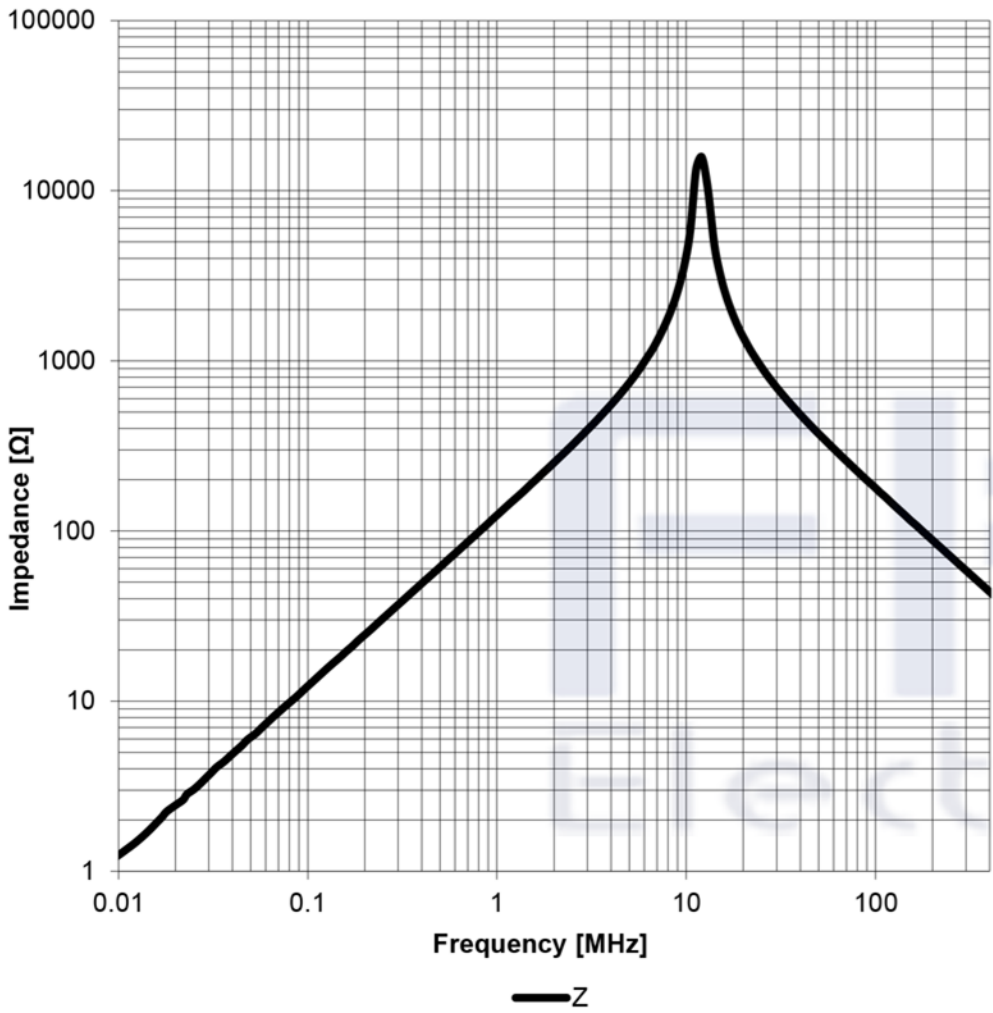


Typical Temperature Rise vs. Current Characteristics:



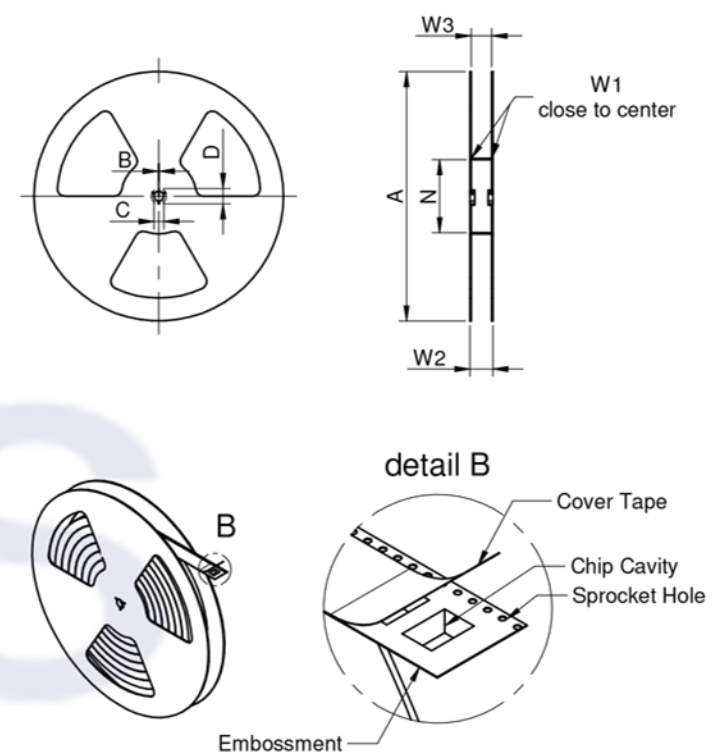
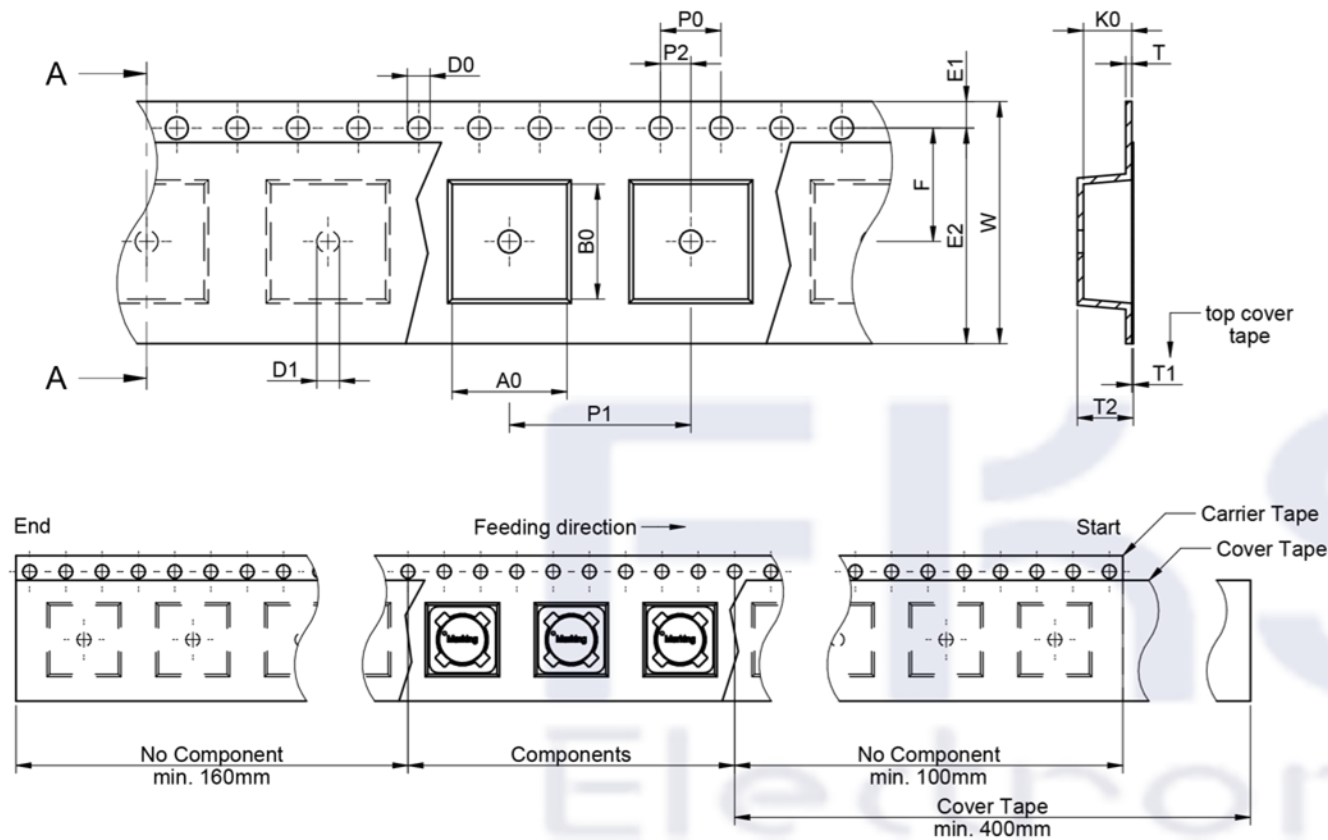
 RoHS COMPLIANT  REACH COMPLIANT  HALOGEN FREE  AEC Q200  125 °C GRADE 1						DATE (YYYY-MM-DD) 2019-02-15		GENERAL TOLERANCE DIN ISO 2768-1m		PROJECTION METHOD 	
  Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. Address:Building B1,The West Cloud Valley, Fengxi New City Xixian New Area,Xianyang City,Shaanxi Province,China. Tel:0086 29 8868 5333 Fax:0086 29 8868 0913 http://www.fks-tech.com				DESCRIPTION SMT Shielded Power Inductor				ORDER CODE FKS7847709220			
				SIZE/TYPE 1210				STATUS Valid			

Typical Impedance Characteristics:



 RoHS COMPLIANT  REACH COMPLIANT  HALOGEN FREE  AEC Q200  125 °C GRADE 1				DATE (YYYY-MM-DD) 2019-02-15		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 SMT Shielded Power Inductor			ORDER CODE FKS7847709220		
						SIZE/TYPE 1210			STATUS Valid		

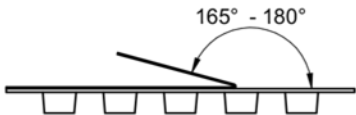
Packaging Specification - Tape and Reel: [mm]



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

	A0	B0	W	T	T1	T2	K0	P0	P1	P2	D0	D1	E1	E2	F	Tape Type 2a	VPE / packaging unit
tolerance	typ.	typ.	+0,3/-0,1	max.	max.	typ.	typ.	±0,1	±0,1	±0,1	+0,1/-0,0	min.	±0,1	min.	±0,1		pcs.
size	1210	12,40	12,4	24,0	0,6	0,1	10,9	10,3	4,0	20,0	2,0	1,5	1,5	1,75	22,25	11,5	Polystyrene 250

	A	B	C	D	N	W1	W2	W3	W3
Tolerance	± 2,0	min.	min.	min.	± 2,0	+ 2	max.	min.	max.
Tape width	24mm	330,00	1,50	12,80	20,20	60,00	24,40	30,40	23,90 27,40

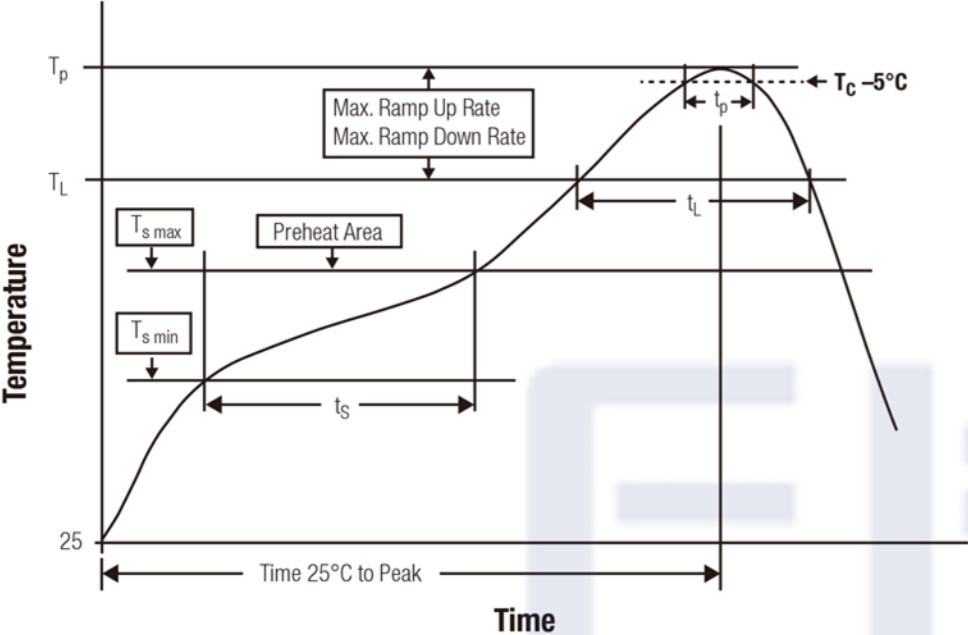


	Pull-of force
Tape width 24 mm	0,1 N - 1,3 N

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DATE (YYYY-MM-DD) 2019-02-15	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION SMT Shielded Power Inductor		ORDER CODE FKS7847709220
SIZE/TYPE 1210	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
Sn-PB Assembly I Package Thickness < 2.5 mm	235 °C	220 °C	
Sn-PB Assembly I Package Thickness ≥ 2.5 mm	220 °C	220 °C	

refer to IPC/ JEDEC J-STD-020E

RoHS COMPLIANT REACH COMPLIANT HALOGEN FREE AEC Q200 125 °C GRADE 1		DATE (YYYY-MM-DD) 2019-02-15	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
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		DESCRIPTION SMT Shielded Power Inductor		ORDER CODE FKS7847709220
SIZE/TYPE 1210		STATUS Valid		