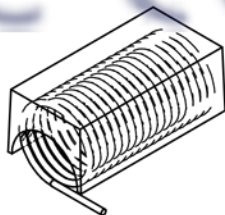
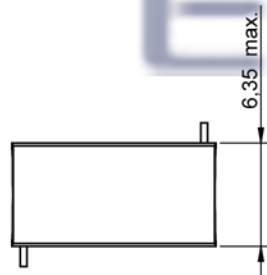
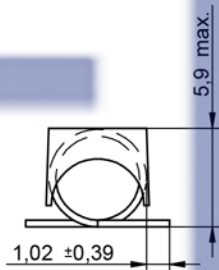
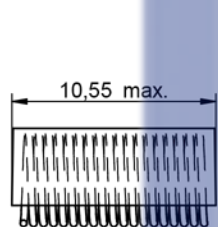
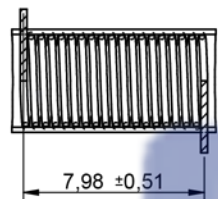
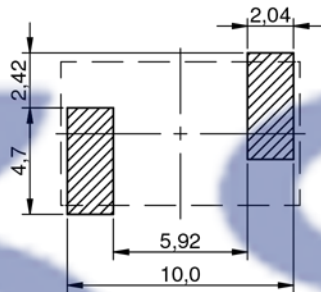


Dimensions: [mm]



Scale - 3:1

Recommended Land Pattern: [mm]



Scale - 3:1

Schematic:



Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	50 MHz	90	nH	±5%
Q-Factor	Q	50 MHz	100		min.
DC Resistance	R _{DC}	@ 20 °C	15	mΩ	max.
Rated Current	I _R	ΔT = 15 K	3,5	A	max.
Self Resonant Frequency	f _{res}		1140	MHz	min.

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 Information:

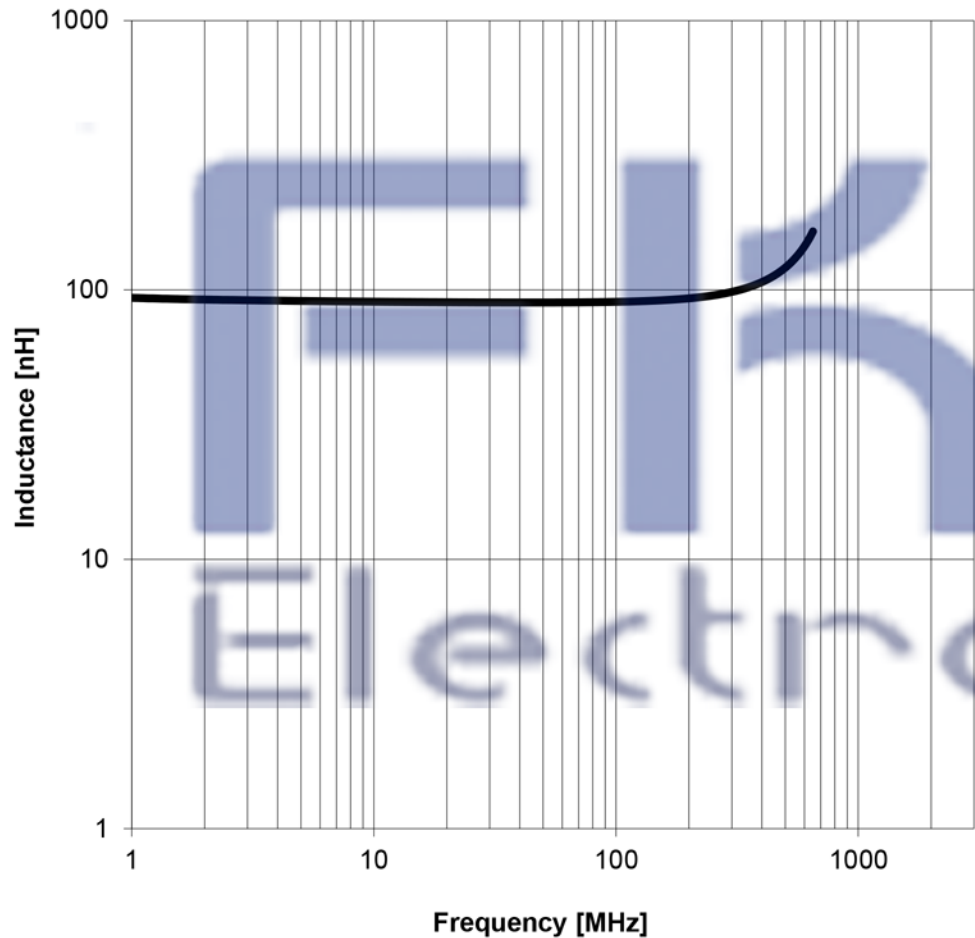
It is recommended that the temperature of the component does not exceed +125 °C under worst case conditions	
Ambient Temperature (referring to I _R)	-40 up to +110 °C
Operating Temperature	-40 up to +125 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	



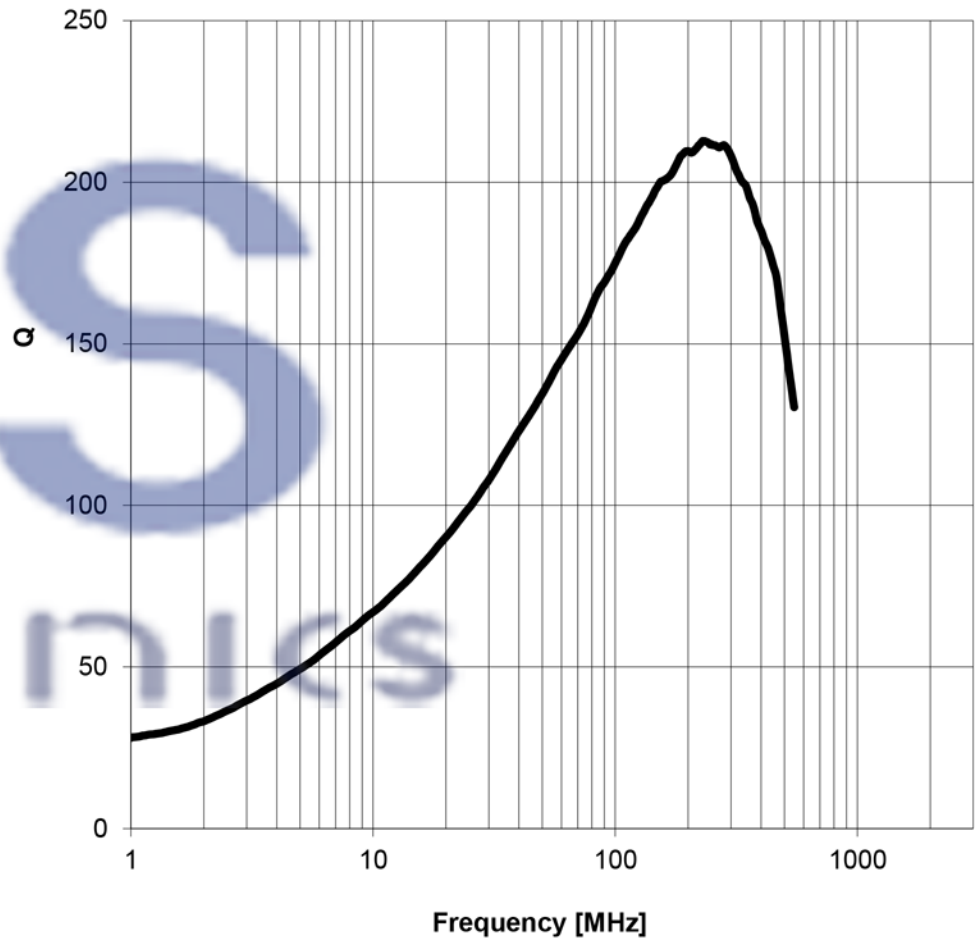
Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.
Address:Building B1,The West Cloud Valley, Fengxi New City,
Xixian New Area,Xianyang City,Shaanxi Province,China.
Tel:0086 29 8868 5333 Fax:0086 29 8868 0913
[Http://www.fks-tech.com](http://www.fks-tech.com)

DATE (YYYY-MM-DD) 2019-05-29	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION Air coil		ORDER CODE FKS744918190
SIZE/TYPE 5910		STATUS Valid

Typical Inductance vs. Frequency Characteristics:

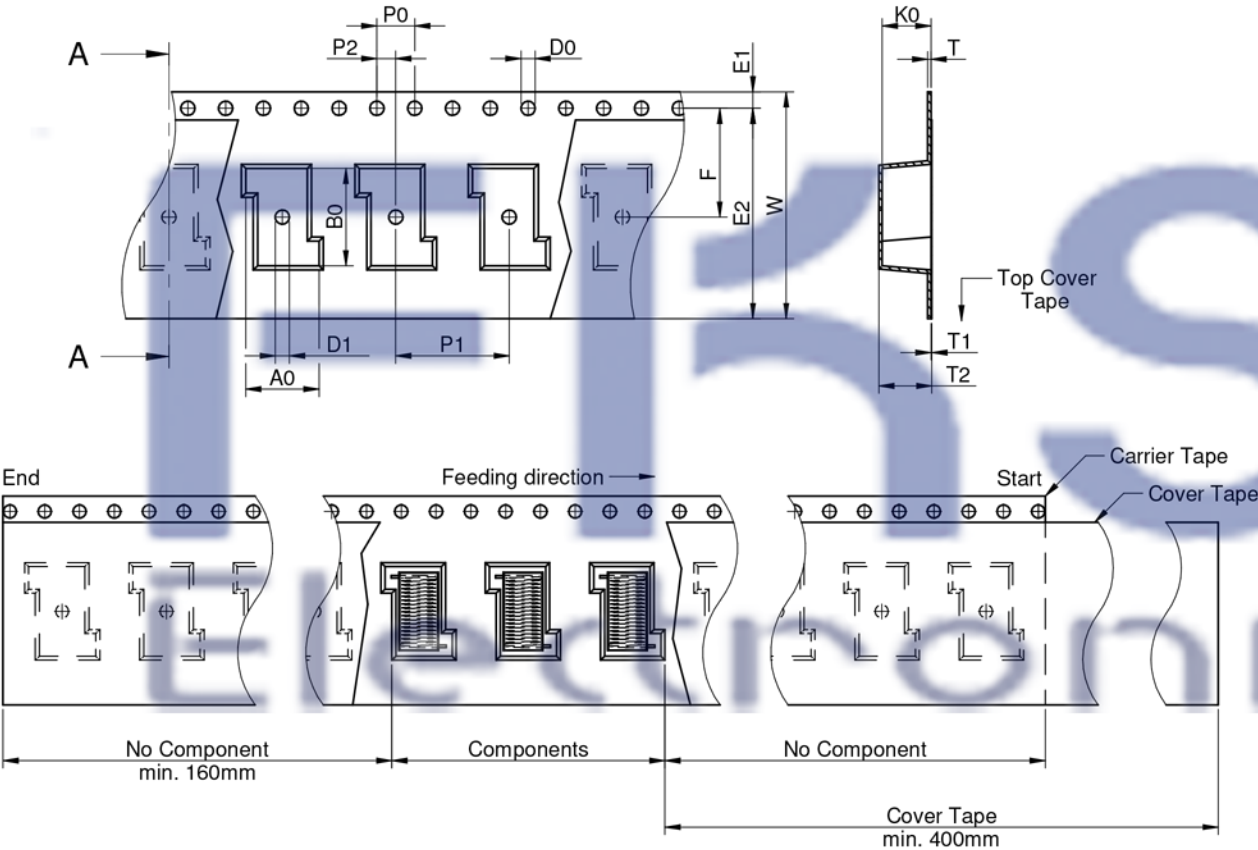


Q-Factor vs. Frequency:



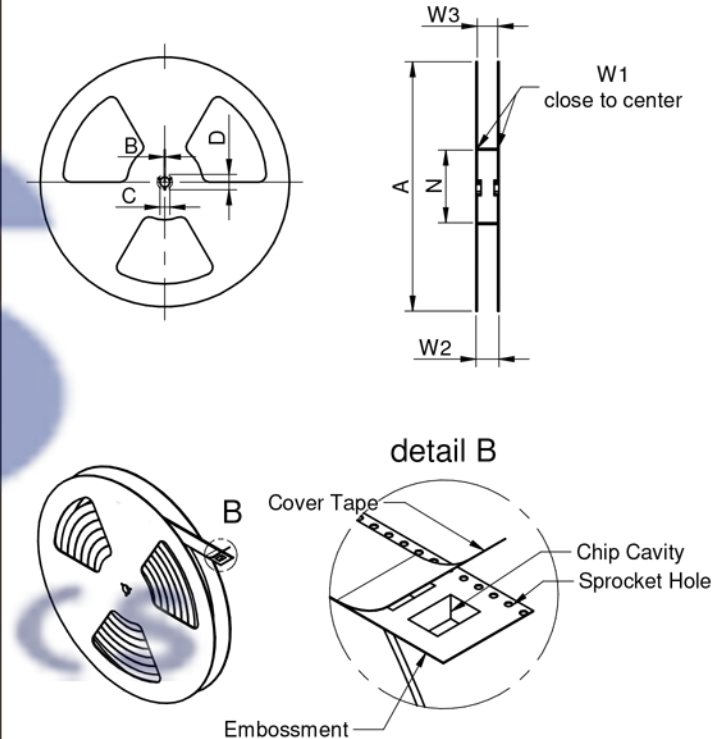
 RoHS COMPLIANT  REACH COMPLIANT  HALOGEN FREE			DATE (YYYY-MM-DD) 2019-05-29		GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
  Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. Address:Building B1,The West Cloud Valley, Fengxi New City, Xixian New Area,Xianyang City,Shaanxi Province,China. Tel:0086 29 8868 5333 Fax:0086 29 8868 0913 Http://www.fks-tech.com			DESCRIPTION Air coil			ORDER CODE FKS744918190
			SIZE/TYPE 5910			STATUS Valid

Packaging Specification - Tape and Reel: [mm]

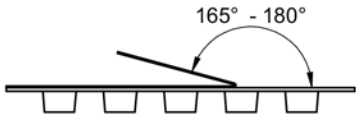


Packaging is referred to the international standard IEC 60286-3:2013

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. 7,10	typ. 9,75	+0,3/-0,1 24,00	ref. 0,35	max. 0,10	typ. 4,95	typ. 5,30	±0,1 4,00	±0,1 12,00	±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	1000



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)
2019-05-29

GENERAL TOLERANCE
DIN ISO 2768-1m

PROJECTION METHOD

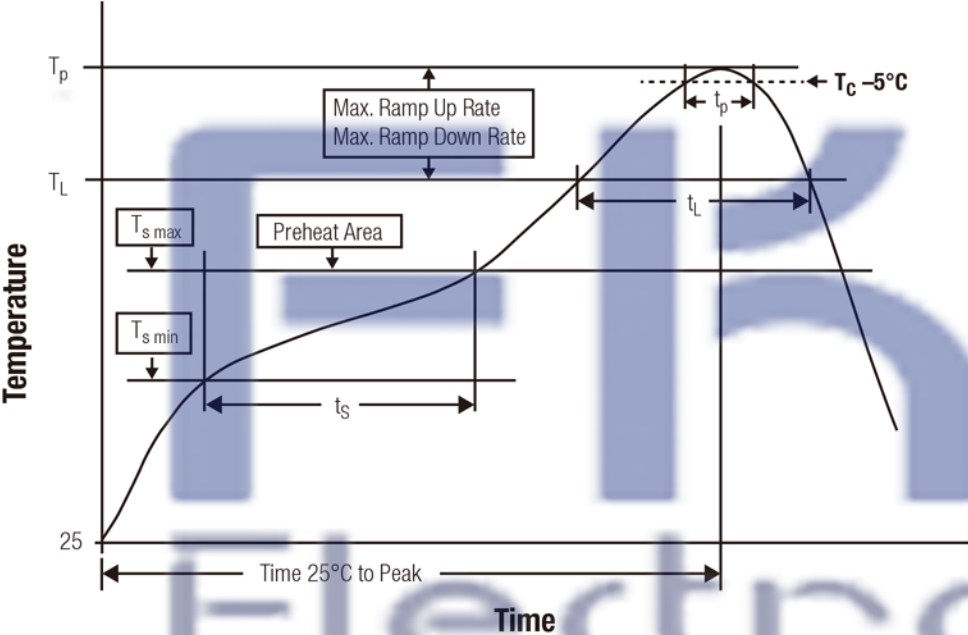
DESCRIPTION
Air coil

ORDER CODE
FKS744918190

SIZE/TYPE
5910

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 temperaure	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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DESCRIPTION Air coil		ORDER CODE FKS744918190		
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