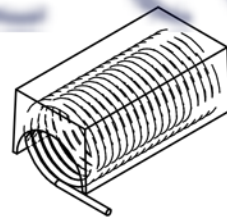
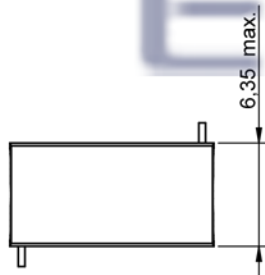
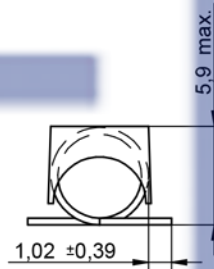
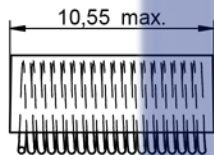
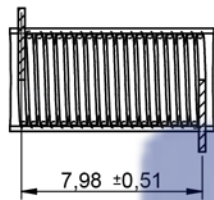
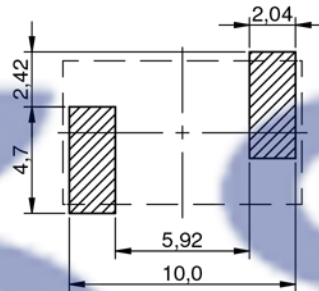


Dimensions: [mm]



Scale - 3:1

Recommended Land Pattern: [mm]



Scale - 3:1

Schematic:



Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	50 MHz	130	nH	±5%
Q-Factor	Q	50 MHz	100		
DC Resistance	R _{DC}	@ 20 °C	20	mΩ	max.
Rated Current	I _R	ΔT = 15 K	3	A	max.
Self Resonant Frequency	f _{res}		900	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	



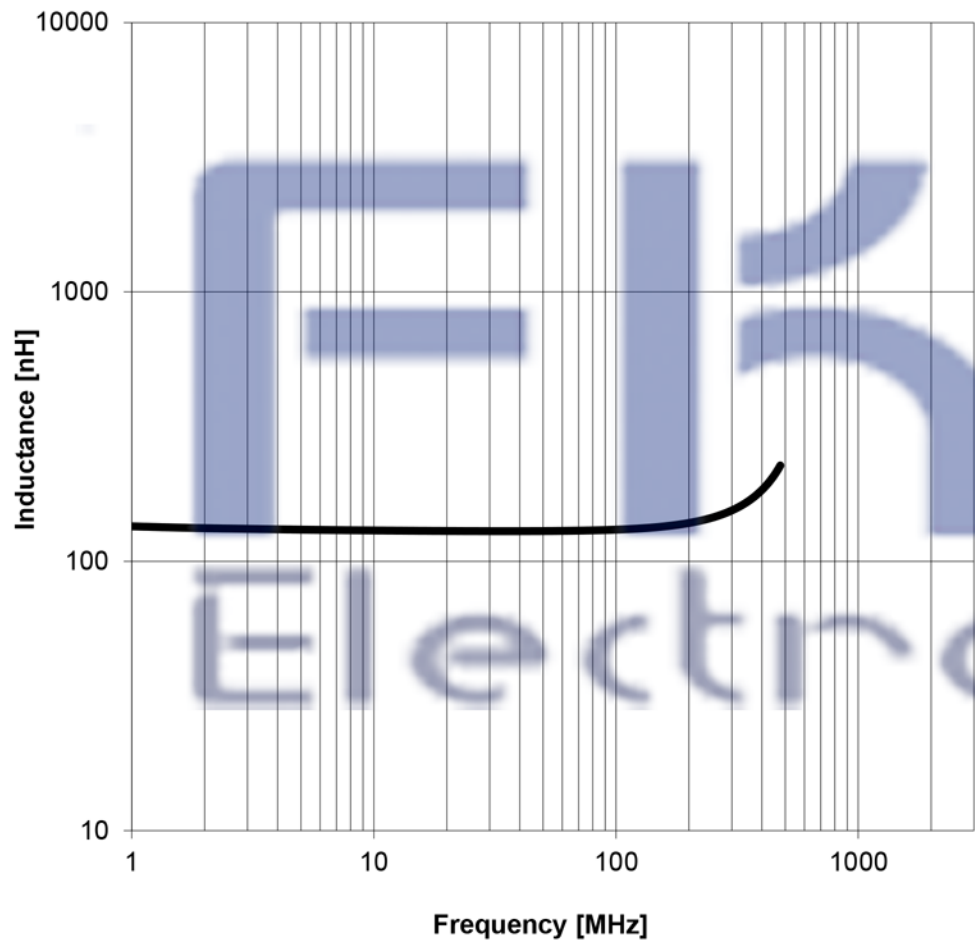
FKS
Electronics



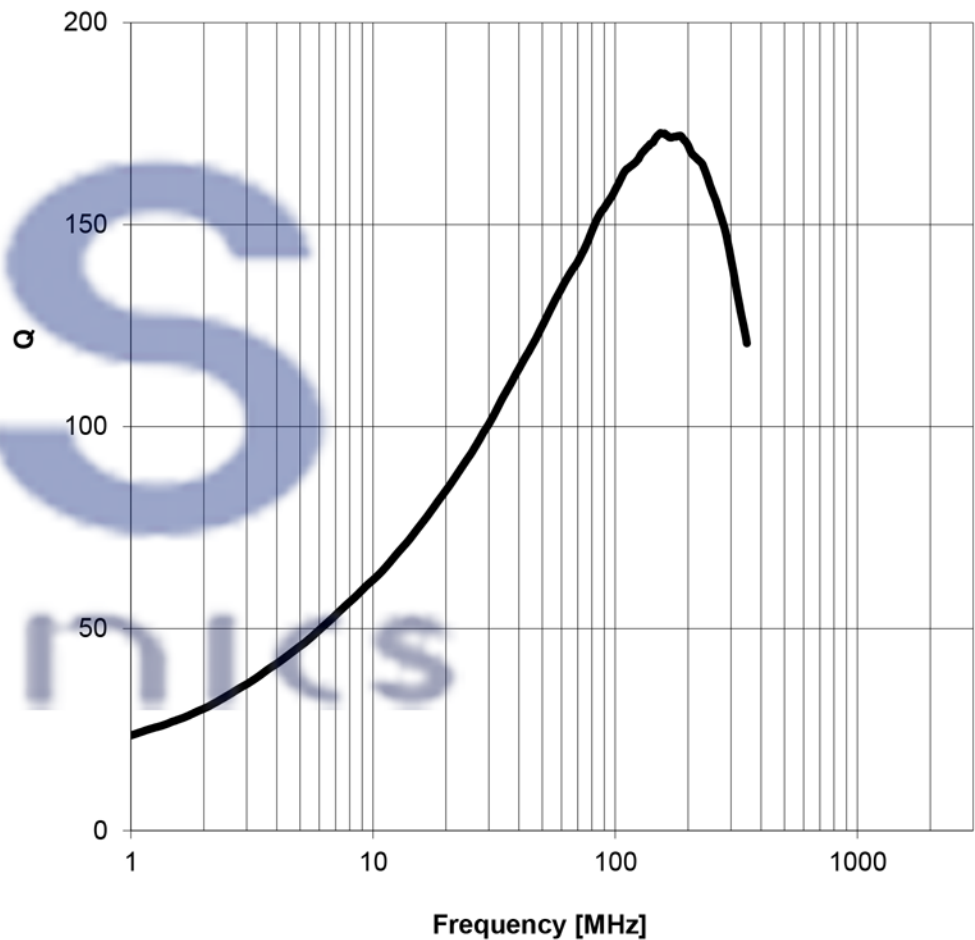
Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.
Address: Building B1, The West Cloud Valley, Fengxi New City,
Xixian New Area, Xianyang City, Shaanxi Province, China.
Tel: 0086 29 8868 5333 Fax: 0086 29 8868 0913
<http://www.fks-tech.com>

DATE (YYYY-MM-DD) 2019-05-29	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION Air coil		ORDER CODE FKS744918213
SIZE/TYPE 5910		STATUS Valid

Typical Inductance vs. Frequency Characteristics:

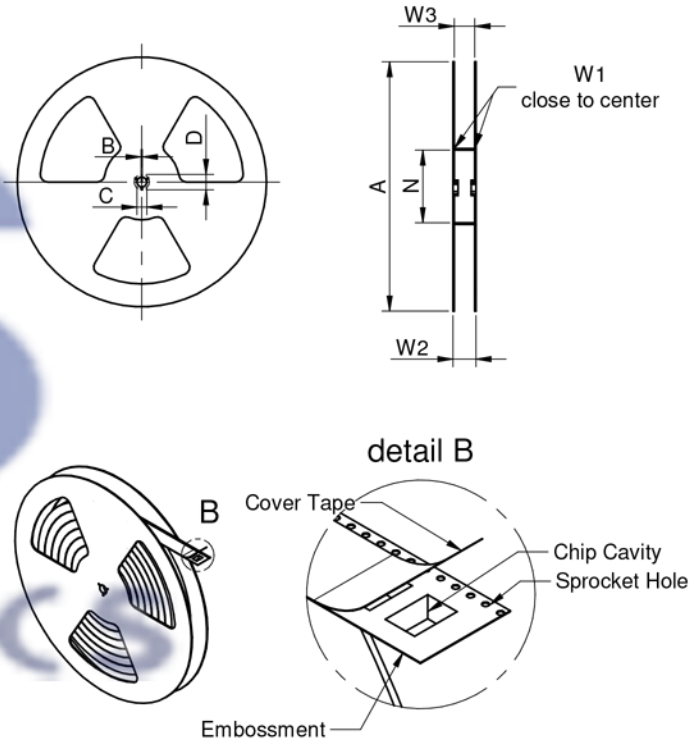
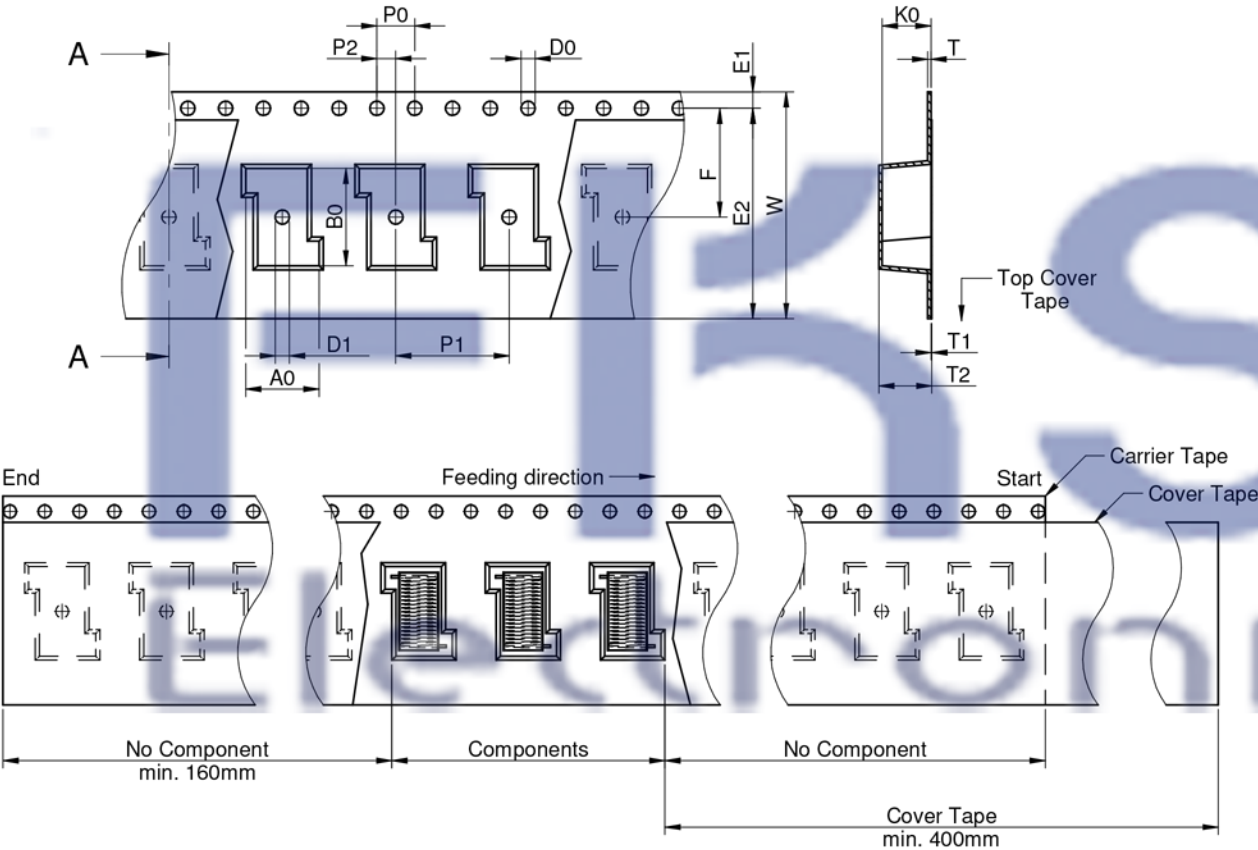


Q-Factor vs. Frequency:



 RoHS COMPLIANT  REACH COMPLIANT  HALOGEN FREE			DATE (YYYY-MM-DD) 2019-05-29		GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
 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 Air coil			ORDER CODE FKS744918213
			SIZE/TYPE 5910			STATUS Valid

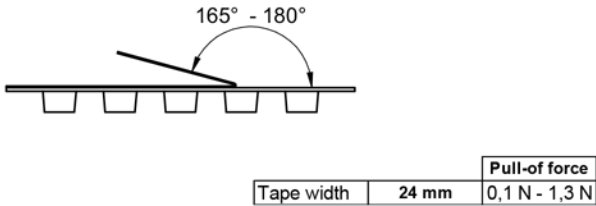
Packaging Specification - Tape and Reel: [mm]



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.	typ.	+0,3/-0,1	ref.	max.	typ.	typ.	±0,1	±0,1	±0,1	+0,1/-0,0	min.	±0,1	min.	±0,1	Polystyrene	1000
	7,10	9,75	24,00	0,35	0,10	4,95	5,30	4,00	12,00	2,00	1,50	1,50	1,75	22,25	11,50		

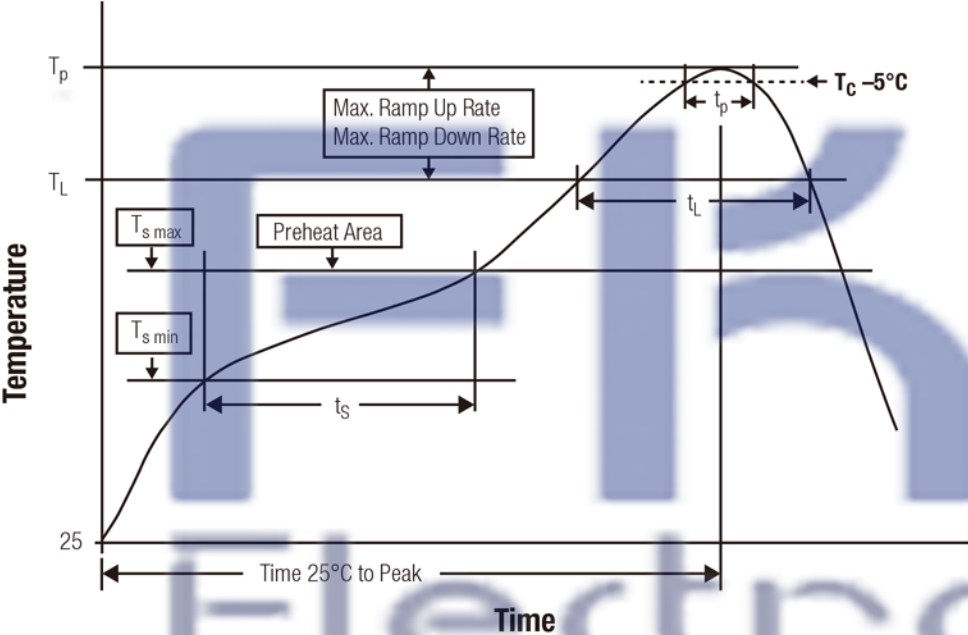
A (mm)	B (mm)	C (mm)	D (mm)	N (mm)	W1 (mm)	W2 (mm)	W3 (mm)	W3 (mm)	Material
± 2,0	min.	min.	min.	± 2,0	+ 2,0	max.	min.	max.	Polystyrene/ Polyurethane
330,00	1,50	12,80	20,20	60,00	24,40	30,40	23,90	27,40	



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DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
2019-05-29	DIN ISO 2768-1m	
DESCRIPTION		ORDER CODE
Air coil		FKS744918213
SIZE/TYPE	STATUS	
5910	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

 RoHS COMPLIANT	 REACH COMPLIANT	 HALOGEN FREE	DATE (YYYY-MM-DD) 2019-05-29	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
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			SIZE/TYPE 5910	STATUS Valid	