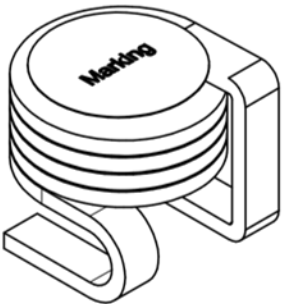
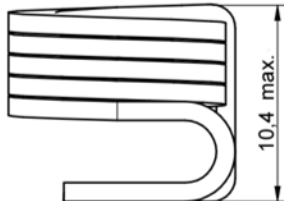
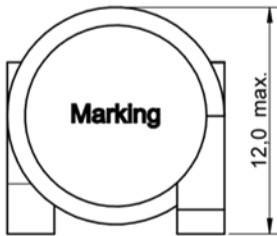
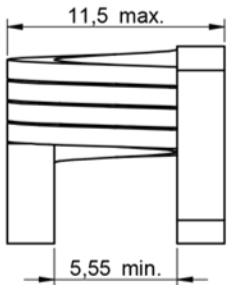
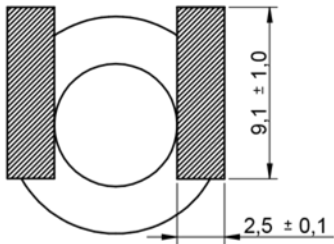
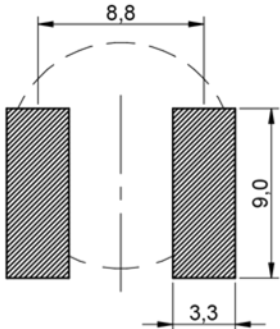


Dimensions: [mm]



Recommended Land Pattern: [mm]



Schematic:



Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	1 MHz	90	nH	±20%
Q-Factor	Q	100 MHz	226		typ.
DC Resistance	R _{DC}	@ 20 °C	1.21	mΩ	max.
Rated Current	I _R	ΔT = 40 K	30	A	max.
Self Resonant Frequency	f _{res}		359	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 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	

Product Marking:

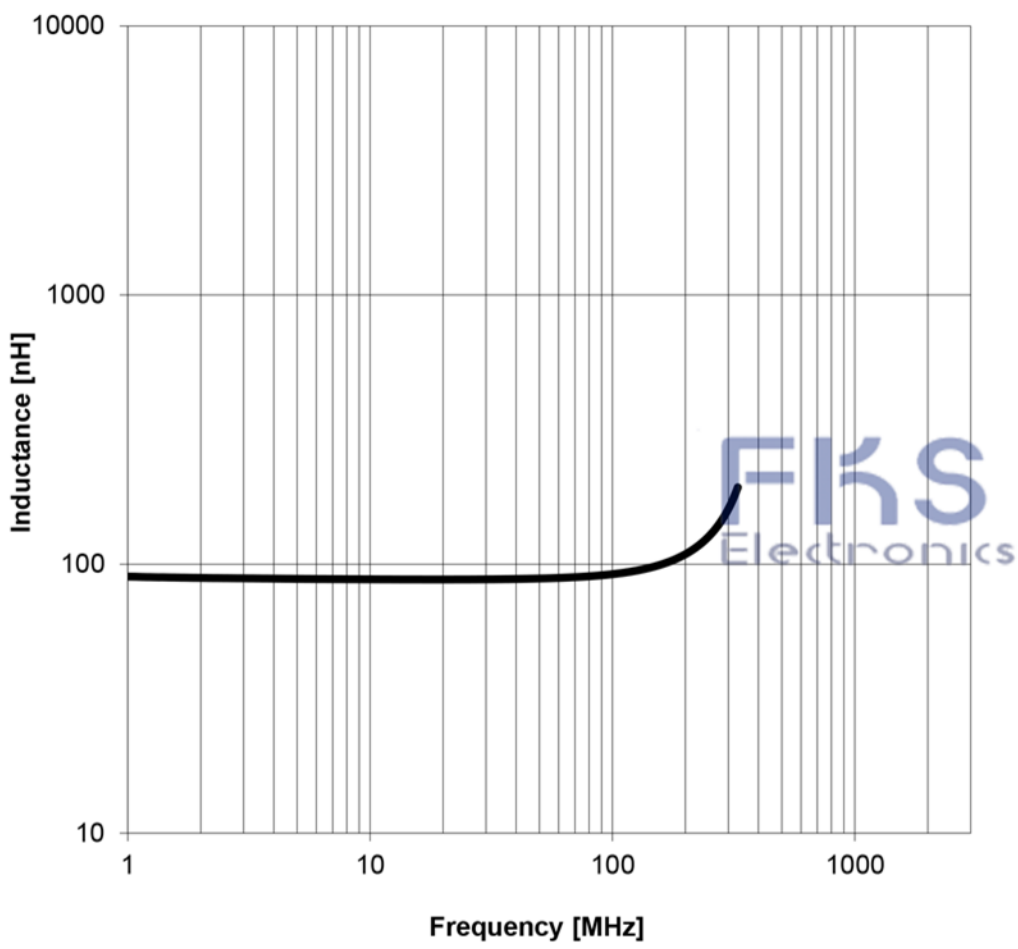
Marking	90N (Inductance Code)
Marking - Date Code	T+Year/Month/Day



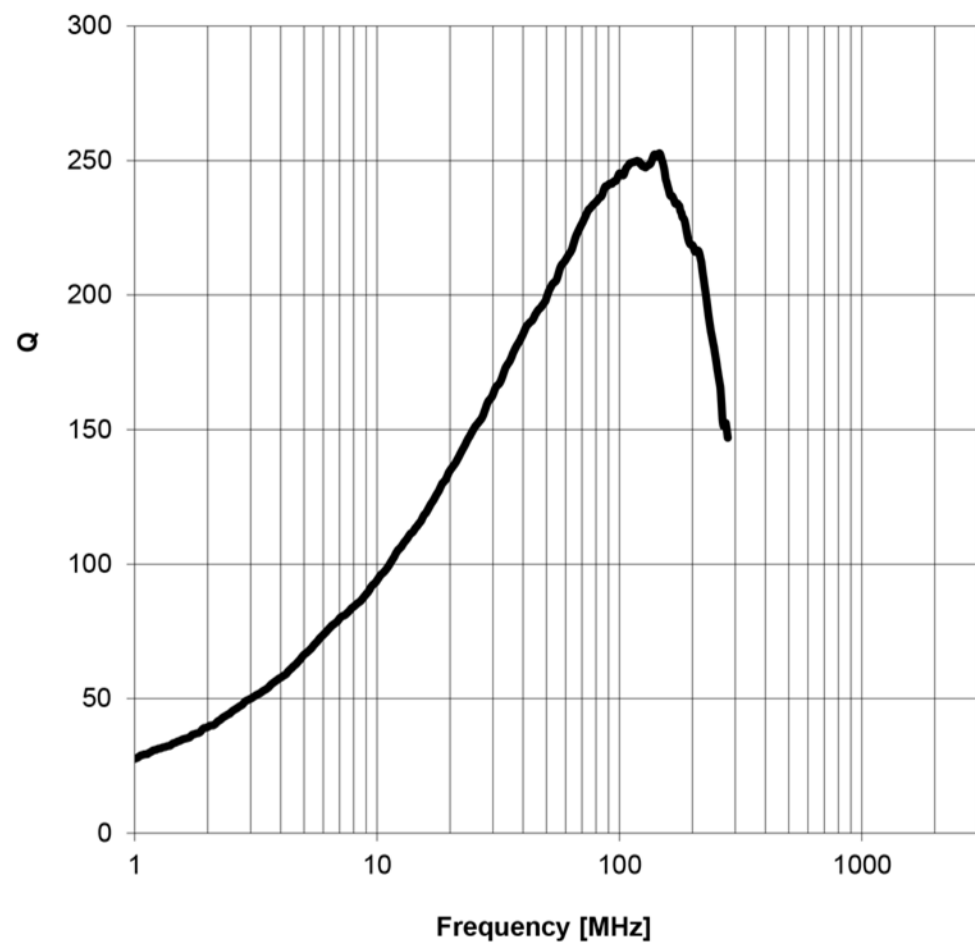
Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.
Address:Building B1,The West Cloud Valley, Fengxi New City,
Xixian New Area,Xianyang City,Shaanxi Province,China.
Tel:0086 29 8868 5333 Fax:0086 29 8868 0913
[Http://www.fks-tech.com](http://www.fks-tech.com)

DATE (YYYY-MM-DD) 2019-05-20	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION HC High current air coil		ORDER CODE FKS7449152090
SIZE/TYPE 1212		STATUS Valid

Typical Inductance vs. Frequency Characteristics:

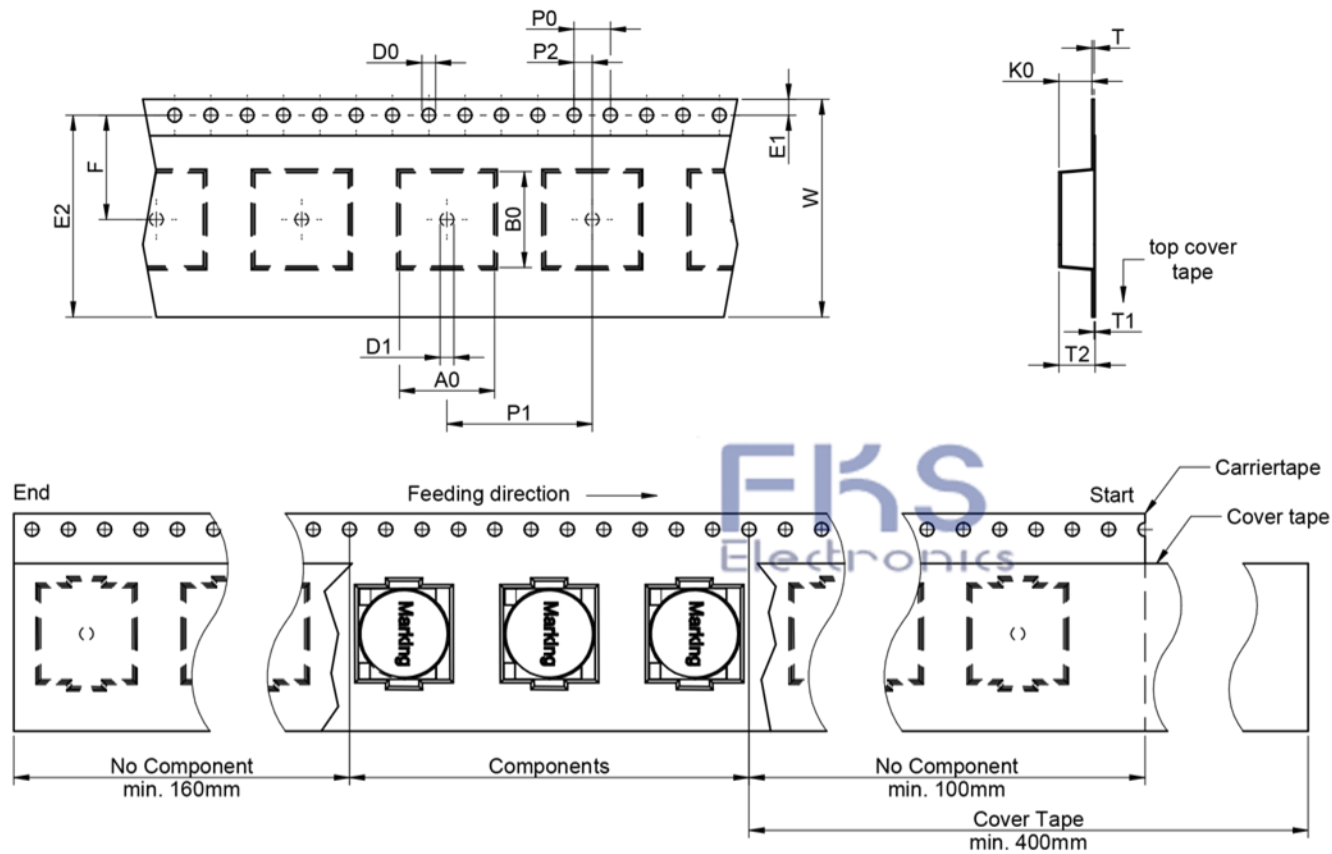


Q-Factor vs. Frequency:



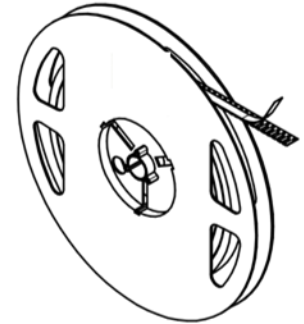
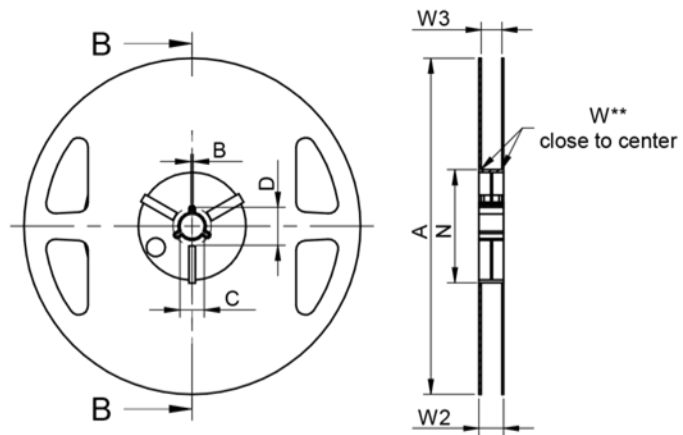
 RoHS COMPLIANT  REACH COMPLIANT  HALOGEN FREE  Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. Address:Building B1,The West Cloud Valley, Fengxi New City, Xixian New Area,Xianyang City,Shaanxi Province,China. Tel:0086 29 8868 5333 Fax:0086 29 8868 0913 Http://www.fks-tech.com		DATE (YYYY-MM-DD) 2019-05-20	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
DESCRIPTION HC High current air coil				ORDER CODE FKS7449152090
SIZE/TYPE 1212			STATUS Valid	

Packaging Specification - Tape and Reel: [mm]

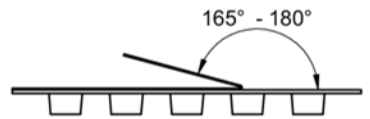


Packaging is referred to the international standard IEC 60286 -3:2007

	A0	B0	W	T	T1	T2	K0	P0	P1	P2	D0	D1	E1	E2	F	Tape Type 2a	VPE / packaging unit
tolerance	±0,1	±0,1	±0,1	typ.	max.	typ.	±0,15	±0,1	±0,1	±0,1	+0,1/-0,0	min.	±0,1	min.	±0,1	Polystyrene	pcs.
size	1212	12,50	12,50	24,00	0,50	0,10	11,20	10,70	4,00	16,00	2,00	1,50	1,50	1,75	22,25	11,50	300



	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

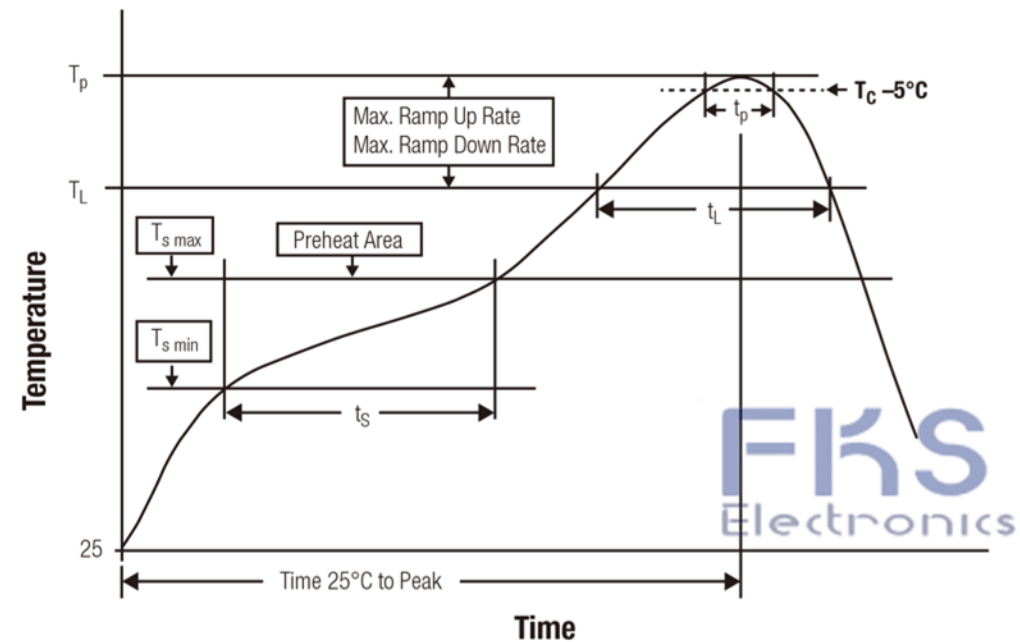


	Pull-of force
Tape width	24 mm
	0,1 N - 1,3 N

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DATE (YYYY-MM-DD)	2019-05-20	GENERAL TOLERANCE	DIN ISO 2768-1m	PROJECTION METHOD	
DESCRIPTION				ORDER CODE	
HC High current air coil				FKS7449152090	
SIZE/TYPE		STATUS			
1212		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 tempereau	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

 			DATE (YYYY-MM-DD) 2019-05-20		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 HC High current air coil			ORDER CODE FKS7449152090		
			SIZE/TYPE 1212		STATUS Valid			