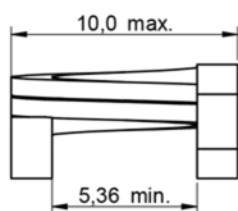
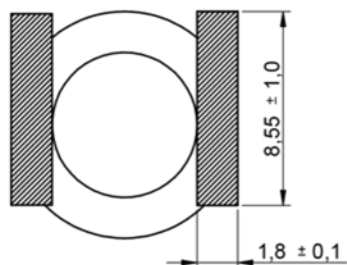


Dimensions: [mm]

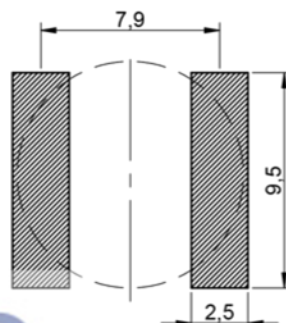


Scale - 3:1

Product Marking:

Marking	46N (Inductance Code)
Marking - Date Code	T+Year/Month/Day

Recommended Land Pattern: [mm]



Scale - 3:1

Schematic:



Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	1 MHz	46.5	nH	±20%
Q-Factor	Q	100 MHz	223		typ.
DC Resistance	R _{DC}	@ 20 °C	1.62	mΩ	max.
Rated Current	I _R	ΔT = 40 K	28	A	max.
Self Resonant Frequency	f _{res}		581	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



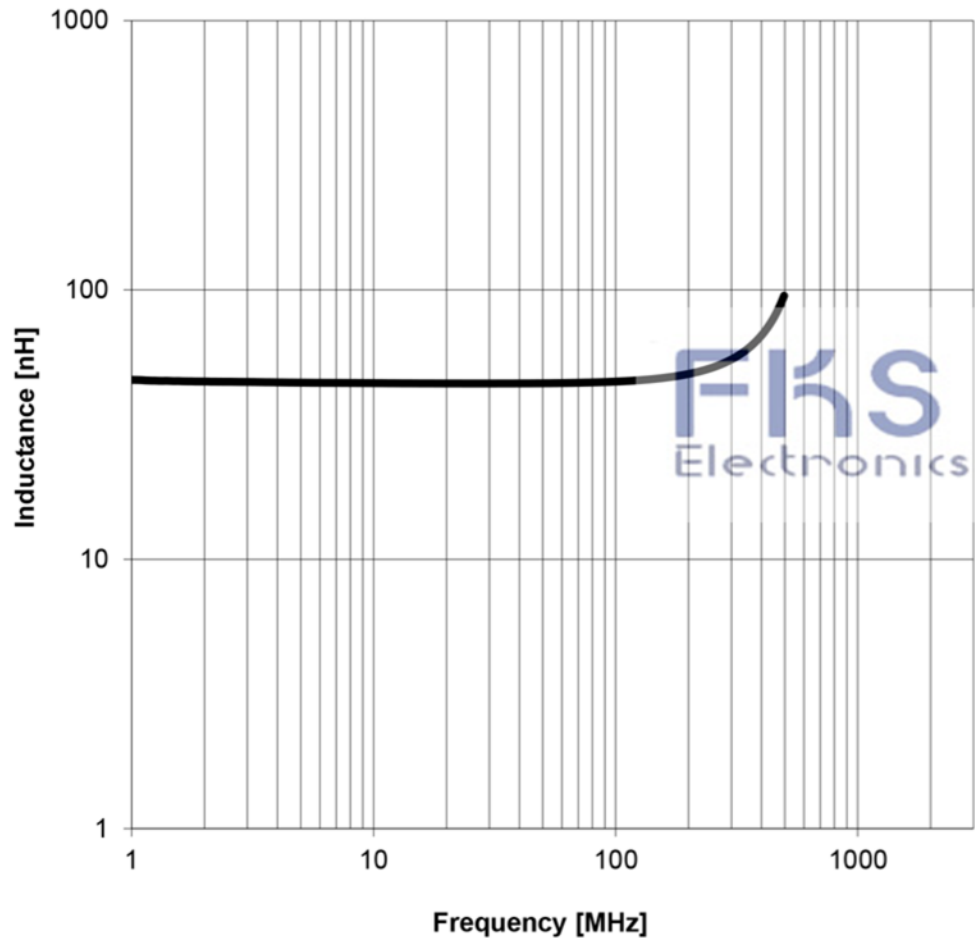
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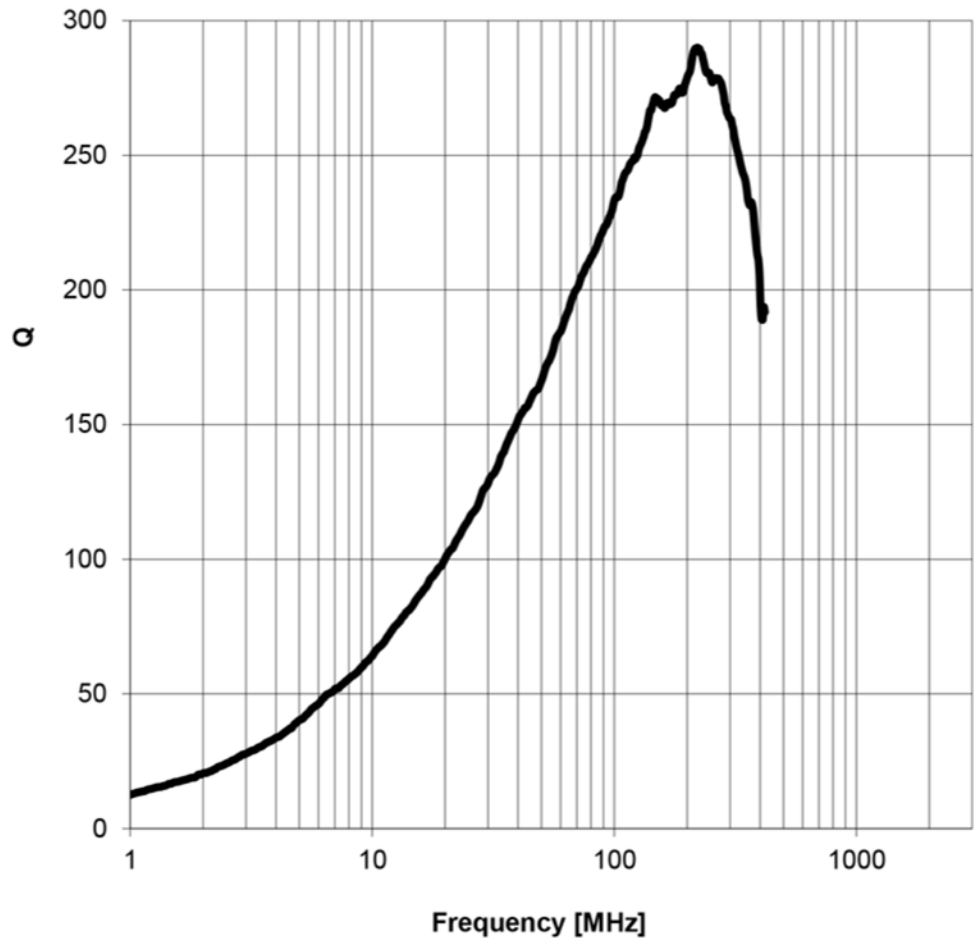
Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.
Address: Building B1, The West Cloud Valley, Fengxi New City,
Xixian New Area, Xianyang City, Shaanxi Province, China.
Tel: 0086 29 8868 5333 Fax: 0086 29 8868 0913
[Http://www.fks-tech.com](http://www.fks-tech.com)

DATE (YYYY-MM-DD)	2019-05-20	GENERAL TOLERANCE	DIN ISO 2768-1m	PROJECTION METHOD	
DESCRIPTION	HC High current air coil				ORDER CODE
SIZE/TYPE	1010				STATUS
				Valid	
					FKS7449150046

Typical Inductance vs. Frequency Characteristics:

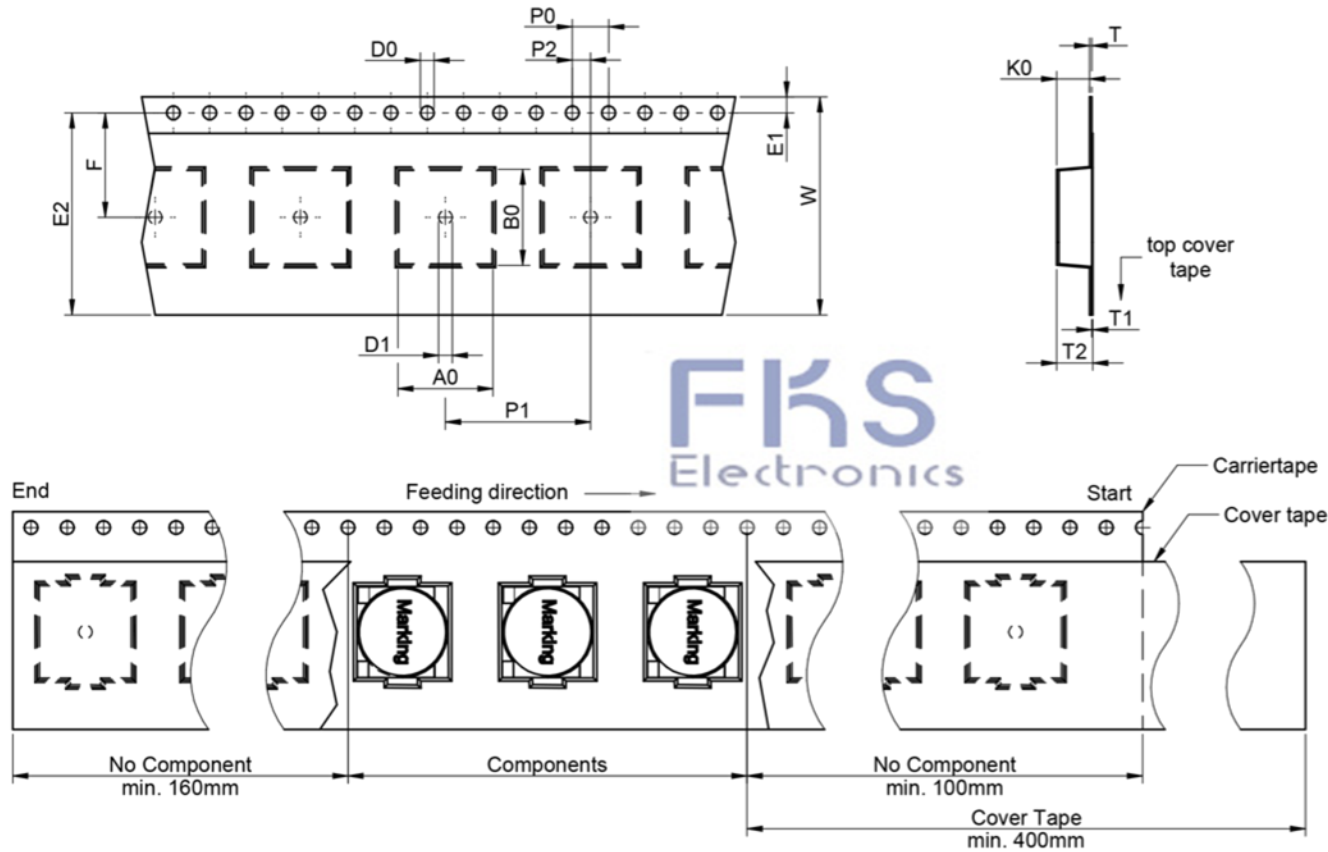


Q-Factor vs. Frequency:



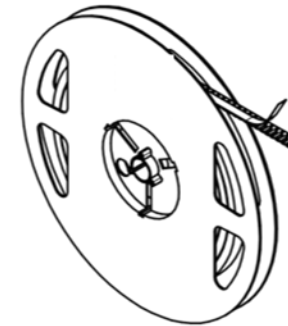
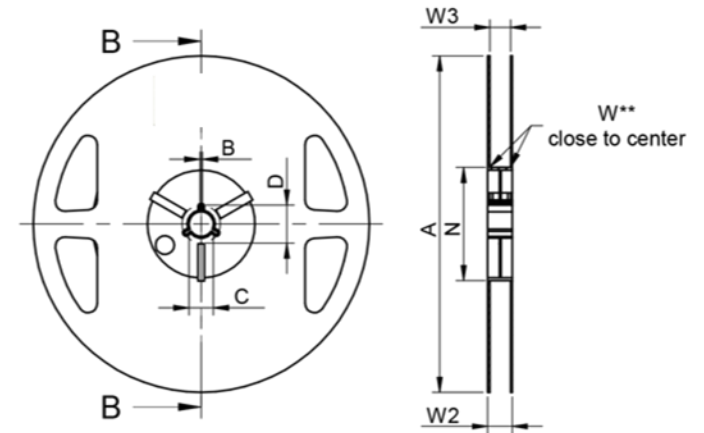
 RoHS COMPLIANT  REACH COMPLIANT  HALOGEN FREE			DATE (YYYY-MM-DD) 2019-05-20		GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
  Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. Address:Building B1,The West Cloud Valley, Fengxi New City, Xixian New Area,Xianyang City,Shaanxi Province,China. Tel:0086 29 8868 5333 Fax:0086 29 8868 0913 Http://www.fks-tech.com			DESCRIPTION 1 HC High current air coil			ORDER CODE FKS7449150046
			SIZE/TYPE 1010			STATUS Valid

Packaging Specification - Tape and Reel: [mm]

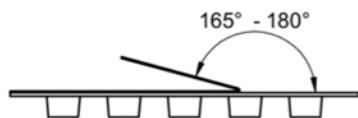


Packaging is referred to the international standard IEC 60286 -3:2007

	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. max.	typ. max.	±0.15	±0.1	±0.1	±0.1	±0.1/-0.0	min.	±0.1	min.	±0.1		pcs.
size	1010	10.50	10.50	24.00	0.50	0.10	5.80	5.30	4.00	16.00	2.00	1.50	1.50	1.75	22.25	Polystyrene	750



		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



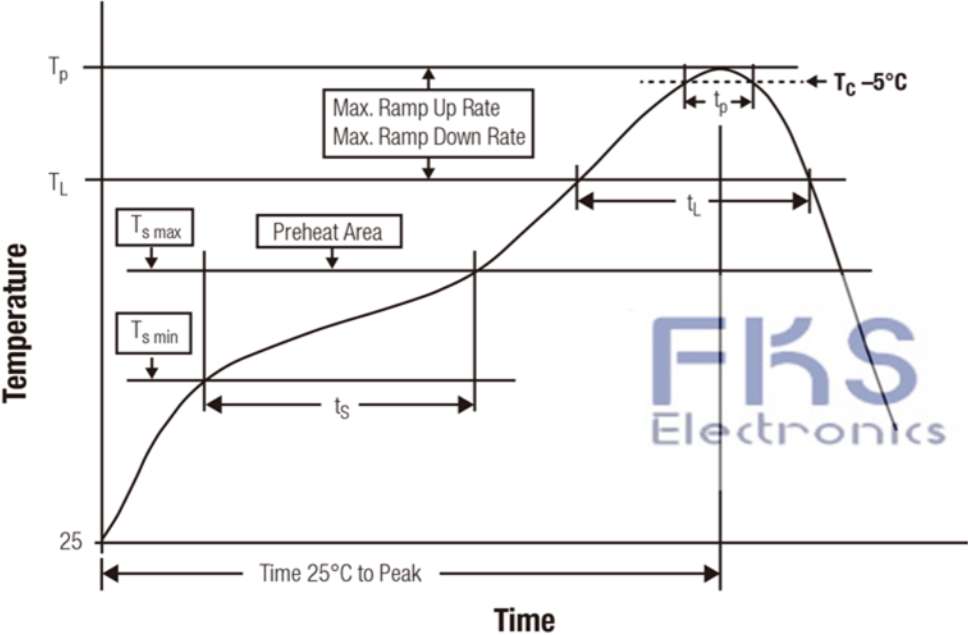
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1	DATE (YYYY-MM-DD) 2019-05-20	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION HC High current air coil		ORDER CODE FKS7449150046	
SIZE/TYPE 1010	STATUS Valid		

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

		DATE (YYYY-MM-DD) 2019-05-20	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
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SIZE/TYPE 1010				STATUS Valid