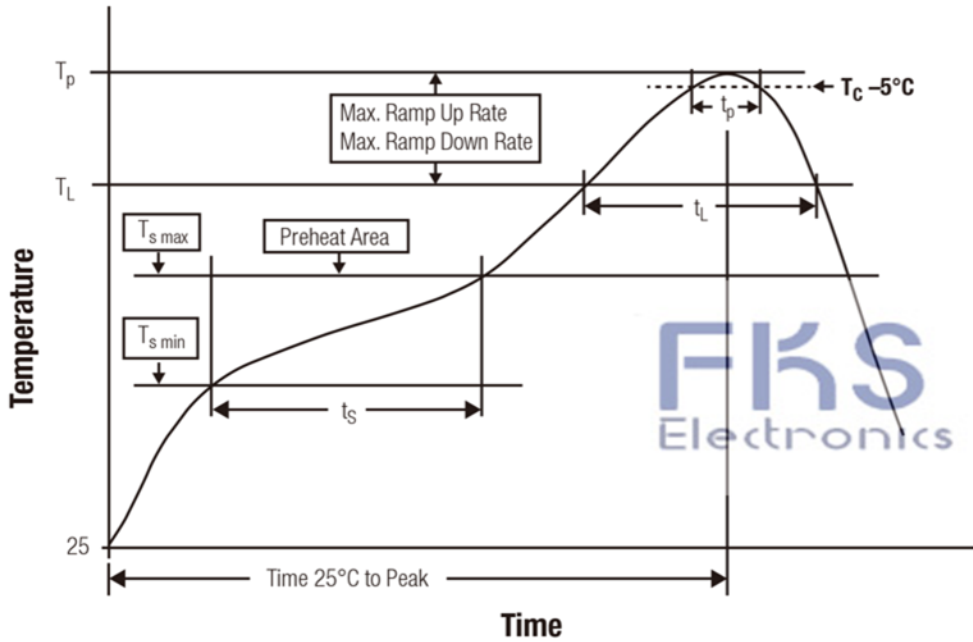


### Classification Reflow Profile for SMT components:



### Classification Reflow Soldering Profile:

Profile Feature		Value
Preheat Temperature Min	$T_{s \text{ min}}$	150 °C
Preheat Temperature Max	$T_{s \text{ max}}$	200 °C
Preheat Time $t_s$ from $T_{s \text{ min}}$ to $T_{s \text{ max}}$	$t_s$	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 tempereature	$t_p$	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 <sup>3</sup> <350	Volume mm <sup>3</sup> 350-2000	Volume mm <sup>3</sup> >2000
PB-Free Assembly   Package Thickness < 1.6 mm	260 °C	260 °C	260 °C
PB-Free Assembly   Package Thickness 1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
PB-Free Assembly   Package Thickness ≥ 2.5 mm	250 °C	245 °C	245 °C

refer to IPC/ JEDEC J-STD-020E



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DATE (YYYY-MM-DD)  
2019-05-20

GENERAL TOLERANCE  
DIN ISO 2768-1m

PROJECTION  
METHOD



DESCRIPTION

**HC High current air coil**

ORDER CODE

**FKS7449150146**

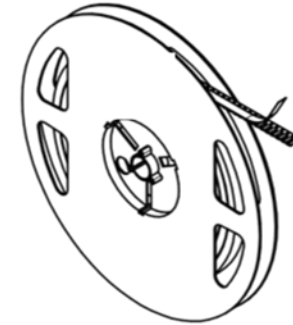
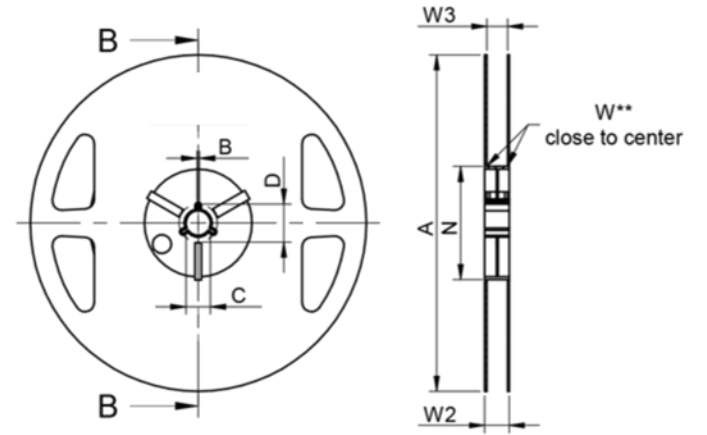
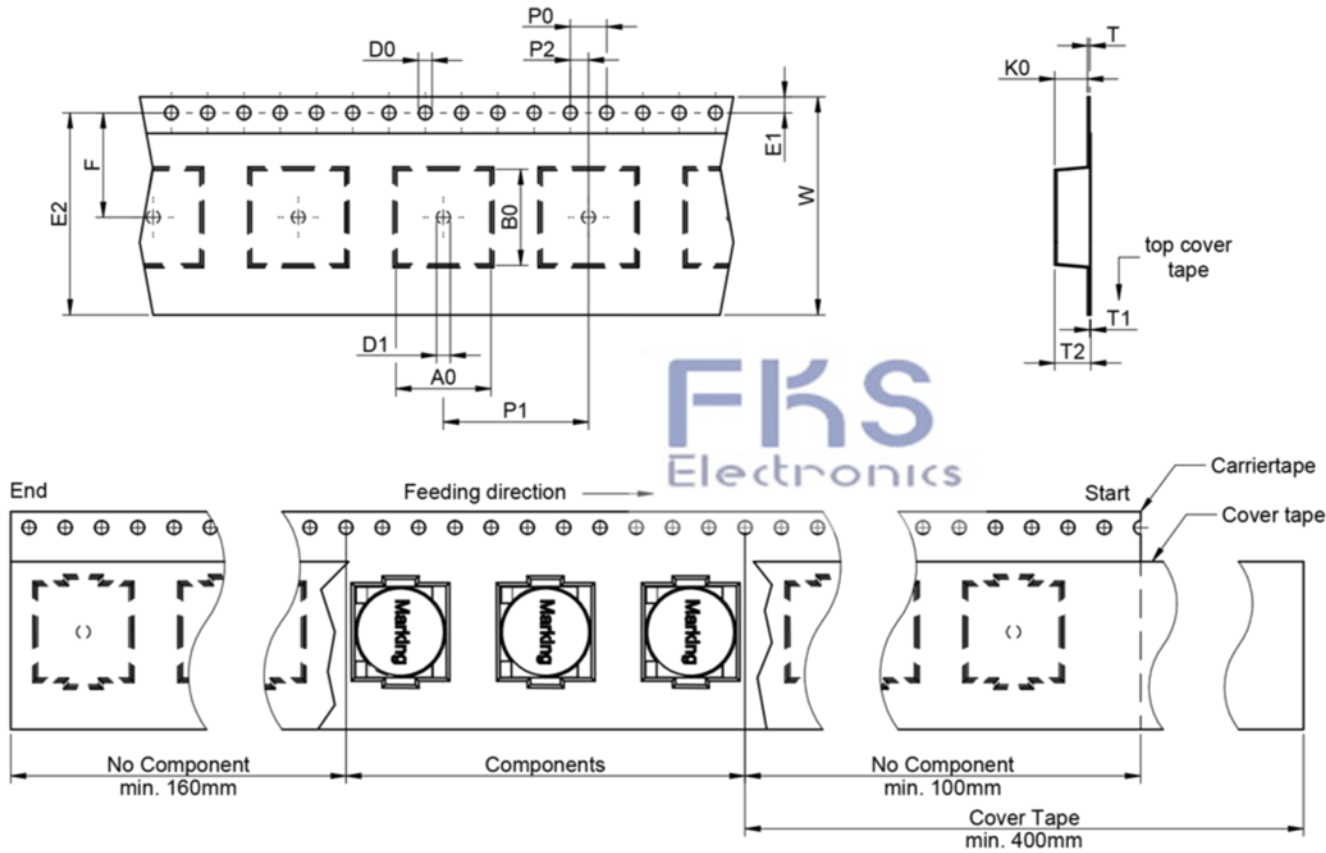
SIZE/TYPE

1010

STATUS

Valid

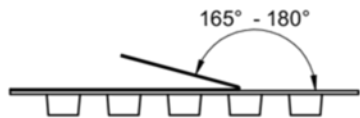
# Packaging Specification - Tape and Reel: [mm]



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.	typ.	±0.15	±0.1	±0.1	±0.1	+0.1/-0.0	min. ±0.1	min.	min.	±0.1		pcs.
size	1010	10.50	10.50	24.00	0.50	0.10	7.30	6.80	4.00	16.00	2.00	1.50	1.75	22.25	11.50	Polystyrene	600

	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	12,90	20,20	60,00	24,40	30,40	23,90 27,40

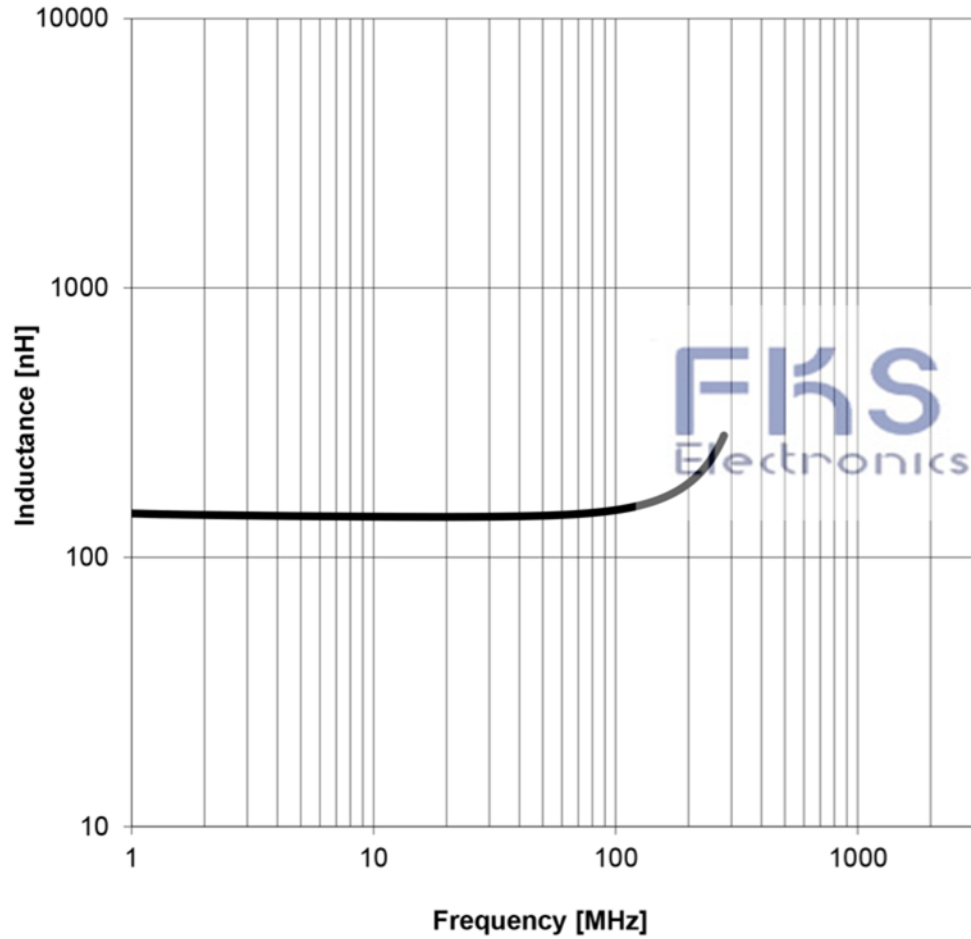


		Pull-of force
Tape width	24 mm	0,1 N - 1,3 N

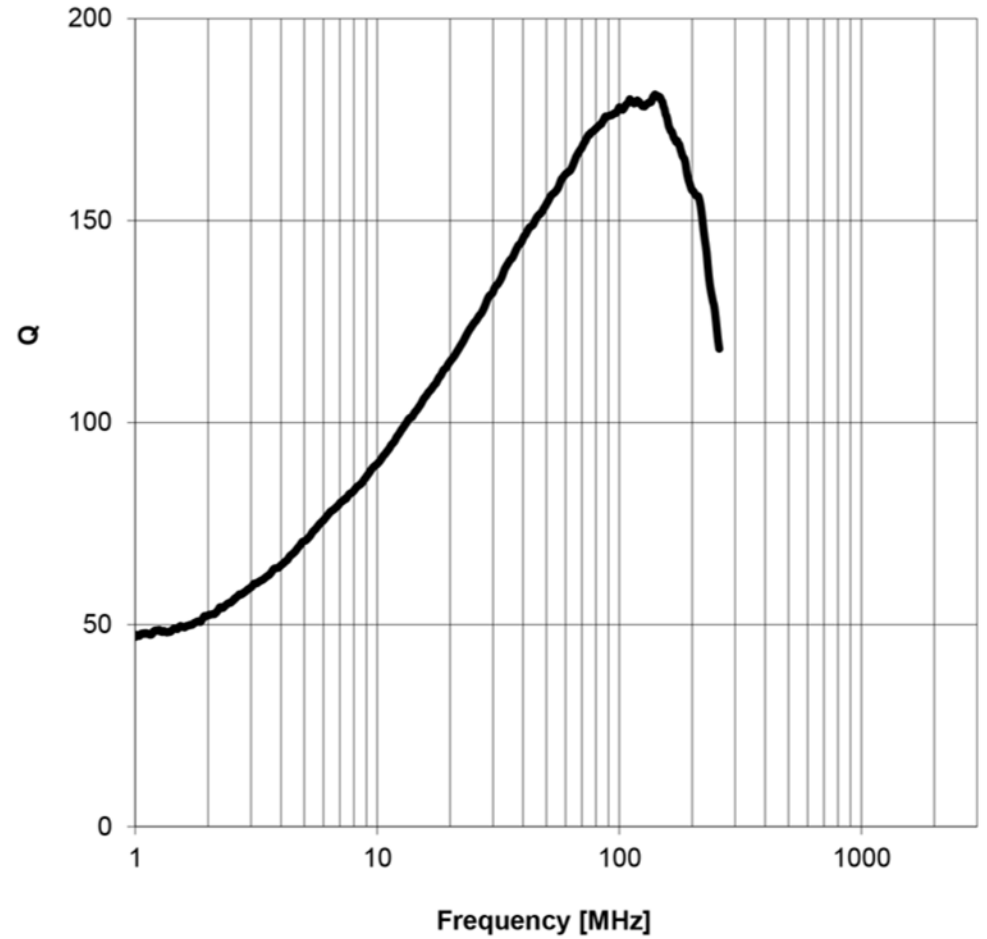
	DATE (YYYY-MM-DD)	GENERAL TOLERANCE	PROJECTION METHOD
	2019-05-20	DIN ISO 2768-1m	
	DESCRIPTION		ORDER CODE
	HC High current air coil		FKS7449150146
	SIZE/TYPE	STATUS	
	1010	Valid	

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### Typical Inductance vs. Frequency Characteristics:

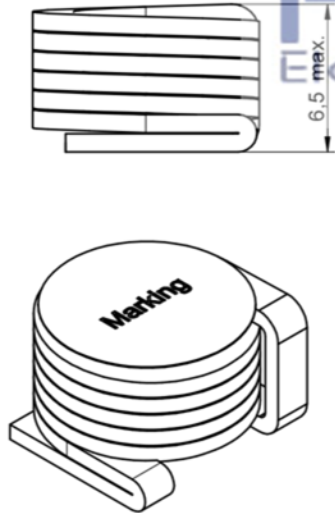
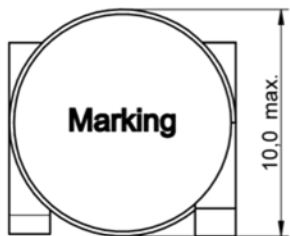
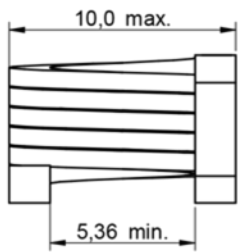
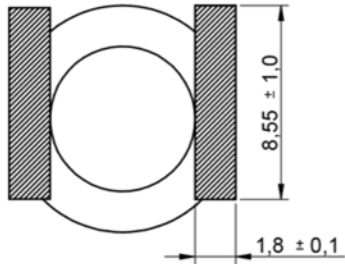


### Q-Factor vs. Frequency:



	DATE (YYYY-MM-DD) 2019-05-20	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
	DESCRIPTION <b>HC High current air coil</b>		ORDER CODE FKS7449150146
	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 <a href="http://www.fks-tech.com">Http://www.fks-tech.com</a>	SIZE/TYPE 1010	STATUS Valid

**Dimensions: [mm]**

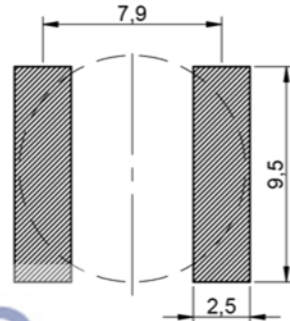


Scale - 3:1

**Product Marking:**

Marking	146N (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	146	nH	±20%
Q-Factor	Q 100 MHz	163		typ.
DC Resistance	R <sub>DC</sub> @ 20 °C	3.33	mΩ	max.
Rated Current	I <sub>R</sub> ΔT = 40 K	19	A	max.
Self Resonant Frequency	f <sub>res</sub>	332	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 <sub>R</sub> )	-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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