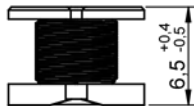
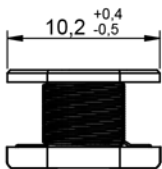
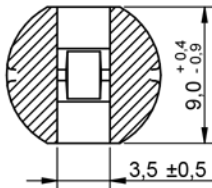


Dimensions: [mm]

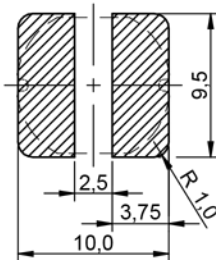


Scale - 2:1

Product Marking:

Marking	472 (Inductance Code)
Start of Winding	•

Recommended Land Pattern: [mm]



Scale 2:1

Schematic:



Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	1 kHz/ 250 mV	4.7	mH	±10
Capacitance	C		13	pF	ref.
DC Resistance	R _{DC}	@ 20 °C	12	Ω	max.
DC Resistance	R _{DC}	@ 20 °C	11.5	Ω	typ.
Rated Current	I _R	ΔT = 40 K	0.25	A	max.
Saturation Current	I _{SAT}	ΔL/L < 10 %	0.3	A	typ.
Self Resonant Frequency	f _{res}		650	kHz	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 +85 °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	

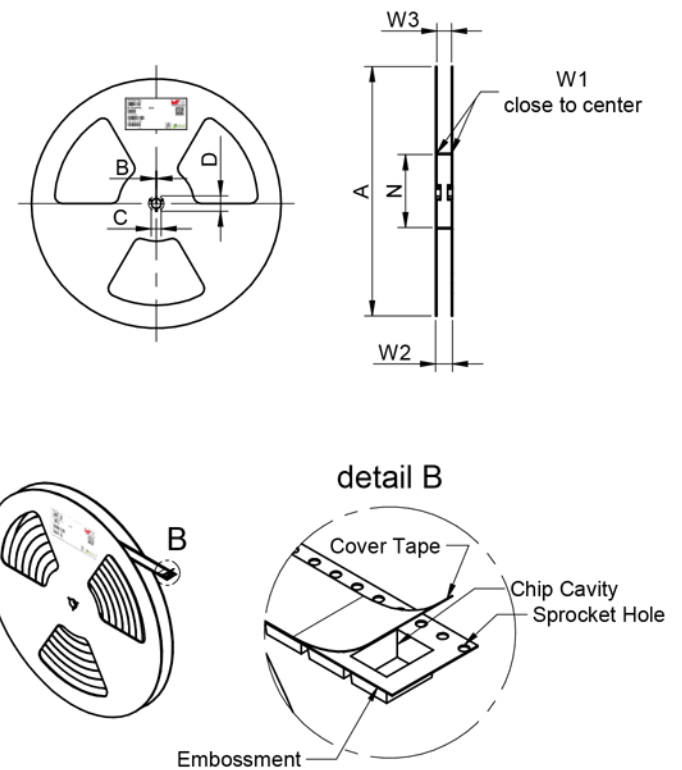
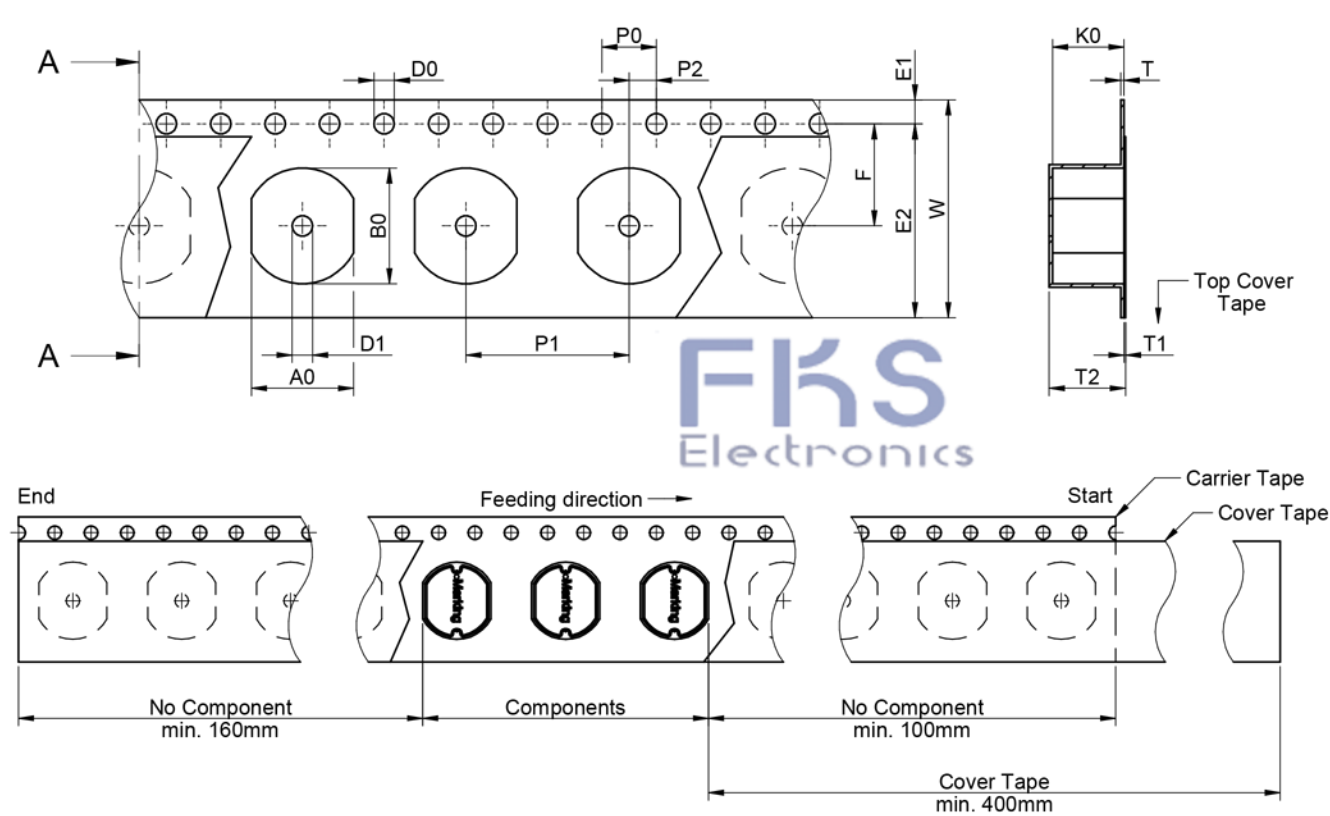


Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.
FKS(Xi'an) Electronic Technology Co.,Ltd.
Address: B1 Building,Western Cloud Valley,Fengxi New Town,
Xixian New Area,Xi'an City, Shaanxi Province,China.
Tel: +86-29-8868 5333
Fax: +86-29-8868 0913



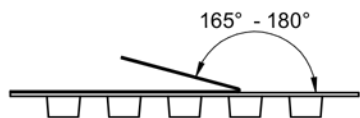
CHECKED ALa	REVISION 003.004	DATE (YYYY-MM-DD) 2019-07-30	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION SMT Wire Wound Inductor				ORDER CODE FKS744776347
SIZE/TYPE M		BUSINESS UNIT eiSos	STATUS Draft	PAGE 1/5

Packaging Specification - Tape and Reel: [mm]



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.)
	typ.	typ.	+0,3/-0,1	ref.	ref.	typ.	typ.	±0,1	±0,1	±0,1	+0,1/-0,0	min.	±0,1	min.	±0,1		
2a	9,50	10,70	24,00	0,50	0,10	7,00		4,00	16,00	2,00	1,50	1,50	1,75	22,25	11,50	Polystyrene	500

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



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



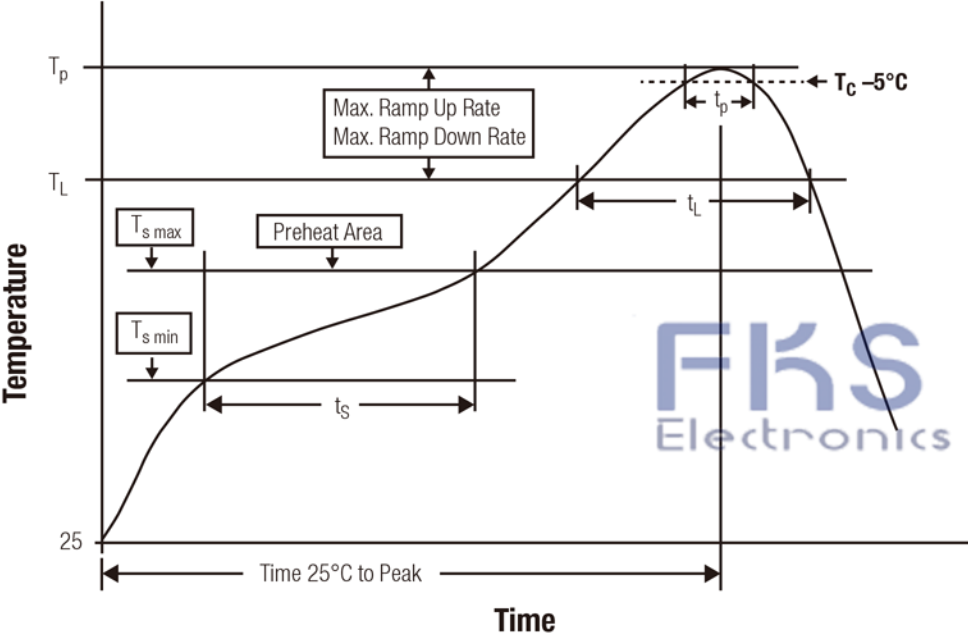
Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.
FKS(X'an) Electronic Technology Co.,Ltd.
Address: B1 Building,Western Cloud Valley,Fengxi New Town,
Xixian New Area,Xi'an City, Shaanxi Province,China.
Tel: +86-29-8868 5333
Fax: +86-29-8868 0913

FKS
Electronics



CHECKED ALa	REVISION 003.004	DATE (YYYY-MM-DD) 2019-07-30	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION SMT Wire Wound Inductor				ORDER CODE FKS744776347
SIZE/TYPE M		BUSINESS UNIT eiSOS	STATUS Draft	PAGE 2/5

Classification Reflow Profile for SMT components:



Classification Reflow Soldering Profile:

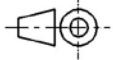
Profile Feature		Value
Preheat Temperature Min	$T_{s\ min}$	150 °C
Preheat Temperature Max	$T_{s\ max}$	200 °C
Preheat Time t_s from $T_{s\ min}$ to $T_{s\ max}$	t_s	60 - 120 seconds
Ramp-up Rate (T_L to T_P)		3 °C/ second max.
Liquidous Temperature	T_L	217 °C
Time t_L maintained above T_L	t_L	60 - 150 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

 Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913 	CHECKED ALa	REVISION 003.004	DATE (YYYY-MM-DD) 2019-07-30	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 	
	DESCRIPTION SMT Wire Wound Inductor				ORDER CODE FKS744776347	
	SIZE/TYPE M		BUSINESS UNIT eiSos		STATUS Draft	PAGE 3/5