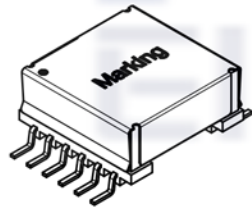
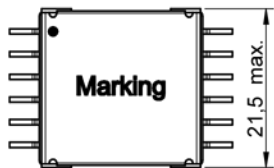
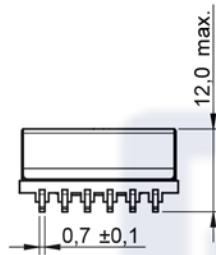
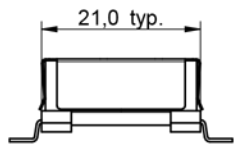
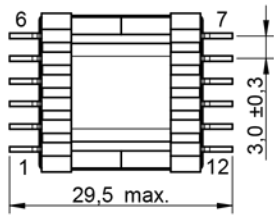
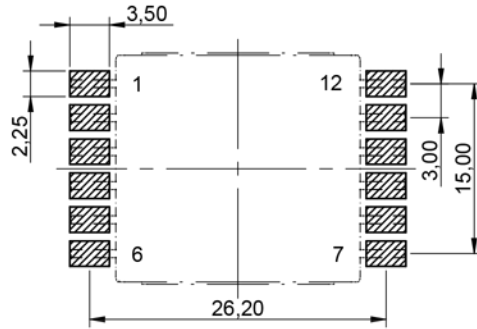


### Dimensions: [mm]



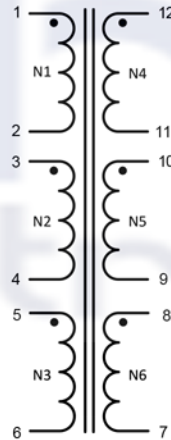
Scale - 1:1

### Recommended Land Pattern: [mm]



Scale - 1,5:1

### Schematic:



### Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance Base	100 kHz/ 0.1 V	$L_{BASE}$	22.3	$\mu\text{H}$	$\pm 20\%$
Turns Ratio		n	1:1:1:1:1:1		
Voltage- $\mu\text{Second}$ Base		$\int U dt_{BASE}$	123.4	$\mu\text{Vs}$	max.
Rated Current Base	$\Delta T = 40 \text{ K}$	$I_{R,BASE}$	1.35	A	typ.
Saturation Current Base	$ \Delta L/L  < 10 \%$	$I_{SAT,BASE}$	0.93	A	typ.
DC Resistance Base	@ 20 °C	$R_{DC,BASE}$	102	m $\Omega$	max.
Leakage Inductance Base	100 kHz/ 0.1 V	$L_{S,BASE}$	0.24	$\mu\text{H}$	typ.
Insulation Test Voltage	all windings	$U_T$	1500	V (AC)	

### General Information:

It is recommended that the temperature of the component does not exceed +125°C under worst case conditions

Operating Temperature	-40 °C up to +125 °C
Storage Temperature (in original packaging)	-40 °C up to +85 °C
Test conditions of Electrical Properties: +20°C, 33% RH if not specified differently	

### Product Marking:

Pin 1	
Marking	FKS749196518
Marking - Date Code	YYWW

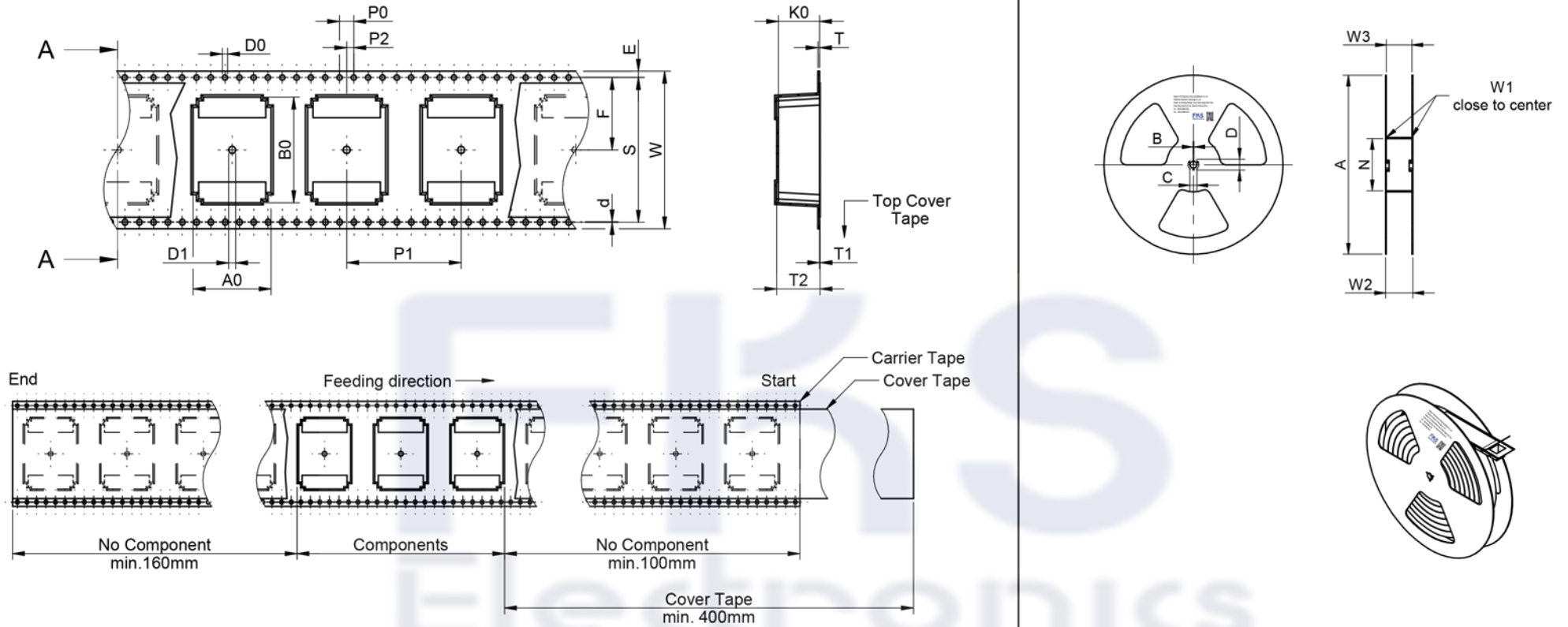
Shaanxi FKS Electronic Parts Import&Export Co.,Ltd.  
 FKS(Xi'an) Electronic Technology Co.,Ltd.  
 Address: B1 Building,Western Cloud Valley,Fengxi New Town,  
 Xixian New Area,Xi'an City, Shaanxi Province,China.  
 Tel: +86-29-8868 5333  
 Fax: +86-29-8868 0913

**FKS**  
Electronics



CREATED	CHECKED	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 
DESCRIPTION <b>Flexible Transformer for DC/DC Converter</b>		ORDER CODE <b>FKS749196518</b>	
SIZE EFD20	REVISION	STATUS	DATE (YYYY-MM-DD) 2017-01-05
BUSINESS UNIT		PAGE	

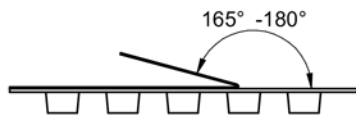
# Packaging Specification - Tape and Reel: [mm]



packaging is referred to the international standard IEC 60286-3:2013

	A0	B0	W	T	T1	T2	K0	P0	P1	P2	D0	D0 / 2	D1	d	E	S	F	Tape Type 2a	VPE / packaging unit	
tolerance	typ.	typ.	±0.3	typ.	typ.	typ.	typ.	±0.1	±0.1	±0.15	+0.1/-0.0	+0.05/-0.0	typ.	+0.05	±0.1	±0.1	±0.1		pcs.	
size	EFD20	21.80	29.50	44.00	0.50	0.05	12.60	12.10	4.00	32.00	2.00	1.50	0.75	2.00	0.20	1.75	40.40	20.20	Polystyrene	120

	A	B	C	D	N	W1	W2	W3	W3
tolerance	± 2.0	min.	min.	min.	min.	+ 2	max.	min.	max.
Tape width	44 mm	330.00	1.50	12.80	20.20	80.00	44.40	50.40	43.90 47.40



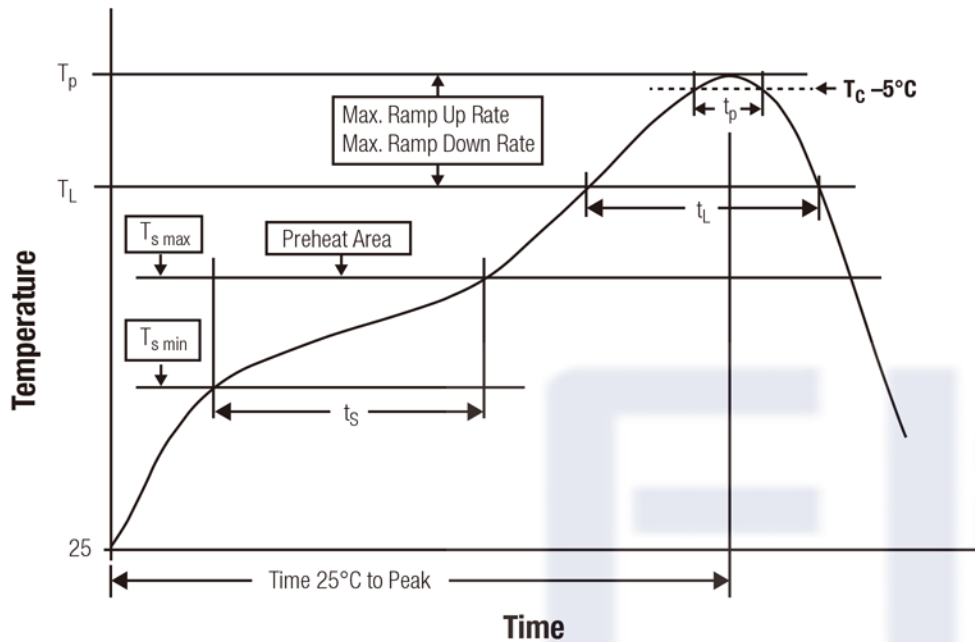
	Pull-of force
Tape width	44 mm 0,1 N - 1,3 N

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CREATED	CHECKED	GENERAL TOLERANCE	PROJECTION METHOD
		DIN ISO 2768-1m	
DESCRIPTION		ORDER CODE	
Flexible Transformer for DC/DC Converter		FKS749196518	
SIZE	REVISION	STATUS	DATE (YYYY-MM-DD)
EFD20			2017-01-05
BUSINESS UNIT		PAGE	

### 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 temperature	$t_p$	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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