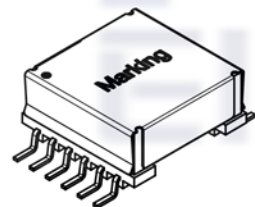
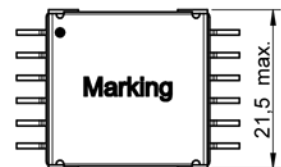
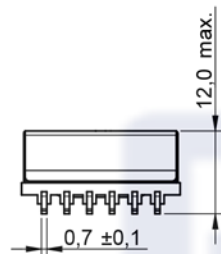
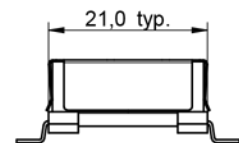
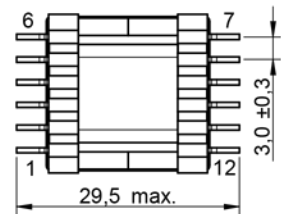


Dimensions: [mm]

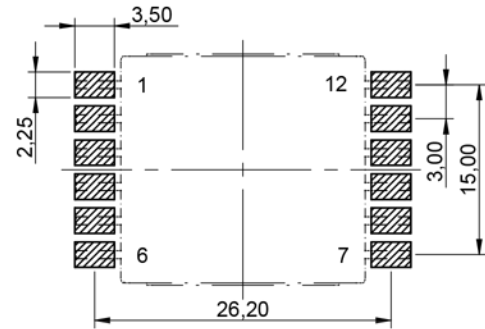


Scale - 1:1

Product Marking:

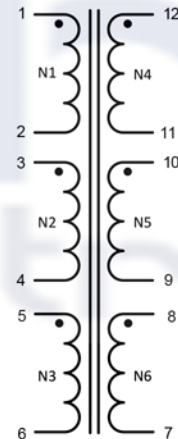
Pin 1	
Marking	FKS749196538
Marking - Date Code	YYWW

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}	9.7	μH	$\pm 20\%$
Turns Ratio		n	1:1:1:1:1:1		
Voltage- μ Second Base		$\int U dt_{BASE}$	123.4	μVs	max.
Rated Current Base	$\Delta T = 40 K$	$I_{R BASE}$	1.35	A	typ.
Saturation Current Base	$ \Delta L/L < 10 \%$	$I_{SAT BASE}$	2.2	A	typ.
DC Resistance Base	@ 20 °C	$R_{DC BASE}$	102	m Ω	max.
Leakage Inductance Base	100 kHz/ 0.1 V	$L_S BASE$	0.24	μH	typ.
Insulation Test Voltage	all windings	U_T	1500	V (AC)	

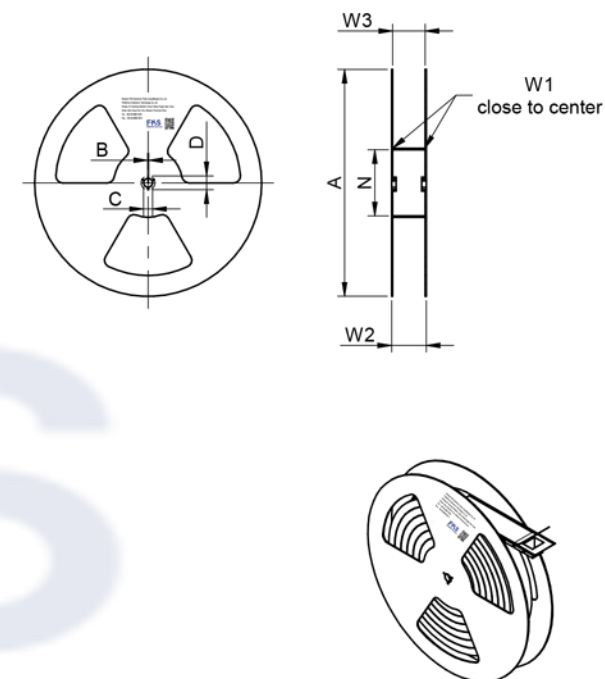
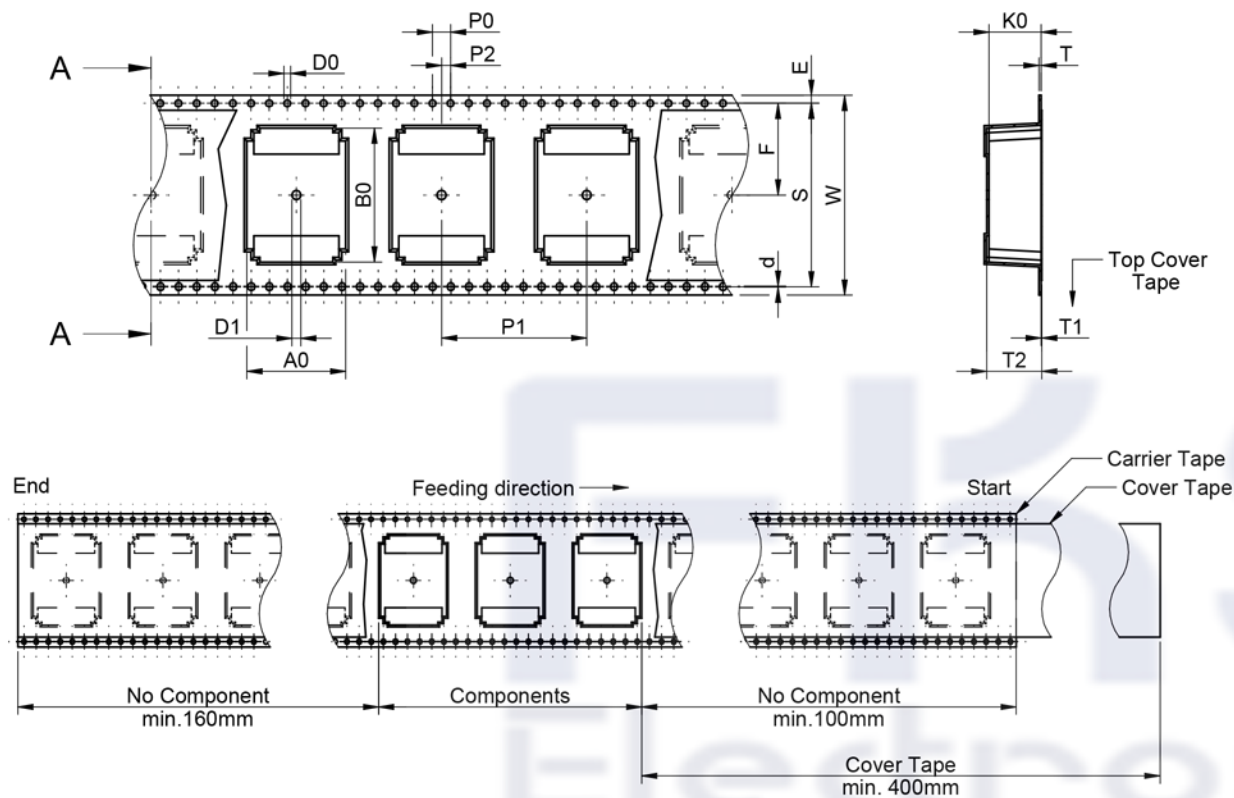
General Information:

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	

Pin 1	
Marking	FKS749196538
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		CREATED	CHECKED	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD 	
DESCRIPTION Flexible Transformer for DC/DC Converter				ORDER CODE FKS749196538		
SIZE EFD20	REVISION	STATUS		DATE (YYYY-MM-DD) 2017-01-05	BUSINESS UNIT	PAGE

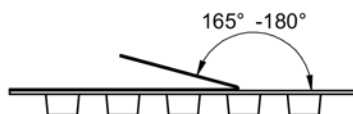


Packaging Specification - Tape and Reel: [mm]

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

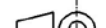
		A	B	C	D	N	W1	W2	W3	W3
tolerance		± 2,0	min.	min.	min.	min.	+ 2	max.	min.	max.
Tape width	44 mm	330.00	1.50	12.80	20.20	80.00	44.40	50.40	43.90	47.40



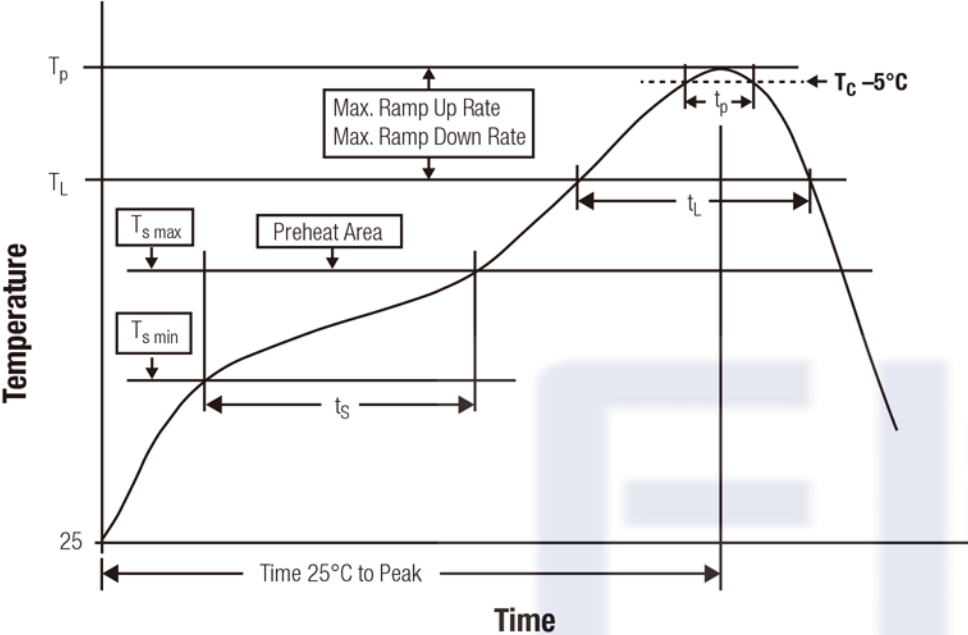
		Pull-of force
Tape width	44 mm	0,1 N - 1,3 N

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		BUSINESS UNIT	PAGE

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 tempaure	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

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