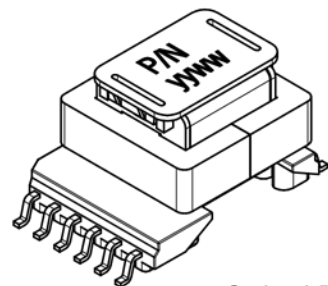
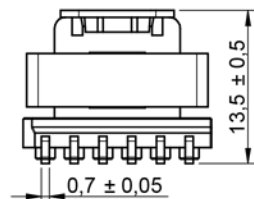
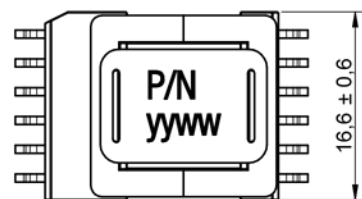
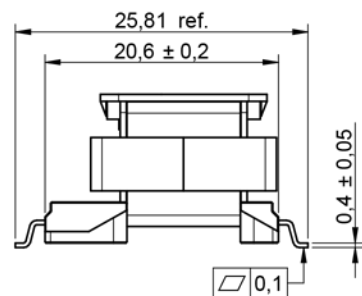
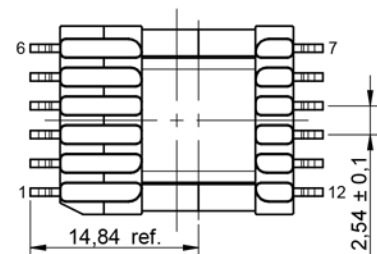
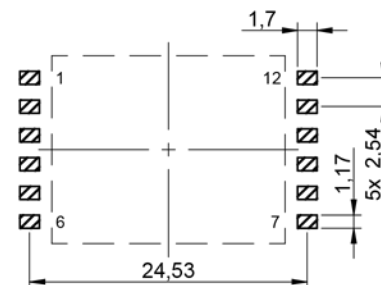


Dimensions: [mm]



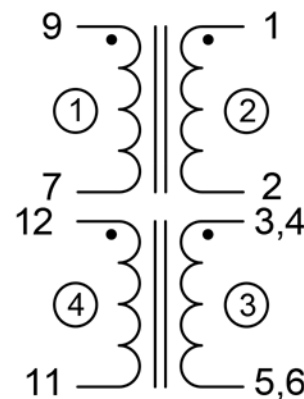
Scale - 1,5:1

Recommended Land Pattern: [mm]



Scale - 1,5:1

Schematic:



Electrical Properties:

Properties		Test conditions	Value	Unit	Tol.
Inductance	L	100 kHz/ 100 mV	1250	μH	±10%
Turns Ratio	n		140 : 9 : 7 : 18		±3%
Saturation Current	I _{SAT}	I _{ΔL} /L _I < 20 %	0.8	A	typ.
DC Resistance 1	R _{DC}		3000	mΩ	max.
DC Resistance 2	R _{DC}		190	mΩ	max.
DC Resistance 3	R _{DC}		30	mΩ	max.
DC Resistance 4	R _{DC}		400	mΩ	max.
Leakage Inductance	L _S	100 kHz/ 100 mV	35	μH	max.
Insulation Test Voltage	U _T	N1,4 => N2,3	4000	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 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	
Designed to comply with the following requirements as defined by IEC61558-2-16; Reinforced insulation for a working voltage of 375 V _{RMS}	

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FKS(Xi'an) Electronic Technology Co.,Ltd.
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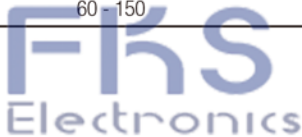


CHECKED	REVISION	DATE (YYYY-MM-DD) 2018-11-27	GENERAL TOLERANCE DIN ISO 2768-1m	PROJECTION METHOD
DESCRIPTION Universal Offline Standard Transformers				ORDER CODE FKS760871534
SIZE/TYPE EE16/8/5	BUSINESS UNIT	STATUS	PAGE	

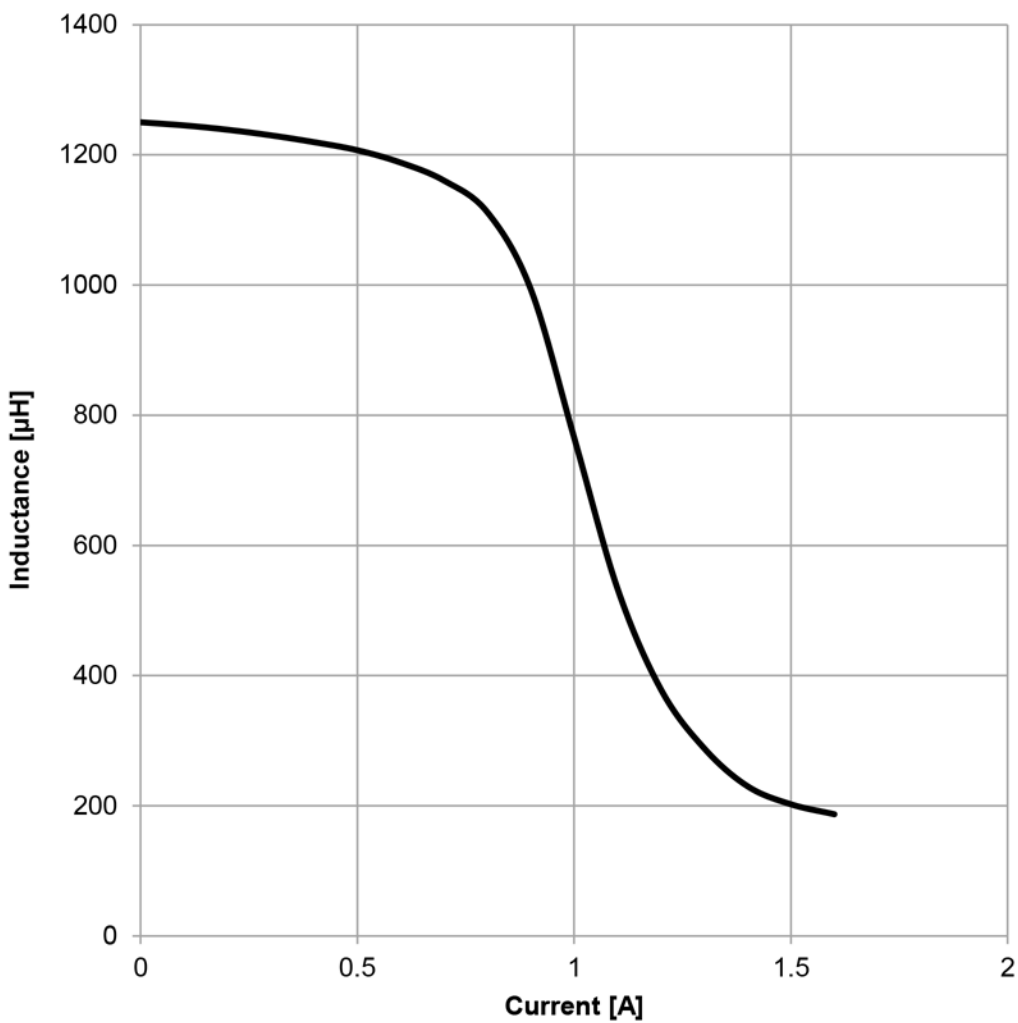
Application Properties:

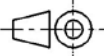
Properties		Value	Unit
Input Voltage	U_i	85 - 265	V (AC)
Output Voltage 1	U_{O1}	12	V
Output Current 1	I_{O1}	0.55	A
Output Voltage 2	U_{O2}	5	V
Output Current 2	I_{O2}	1.25	A
Auxiliary Voltage	U_{aux}	14	V
Switching Frequency	f_{switch}	60 - 150	kHz

For Output voltage U_{O1} connect windings 2 and 3 in series
Output voltage U_{O2} is winding 3

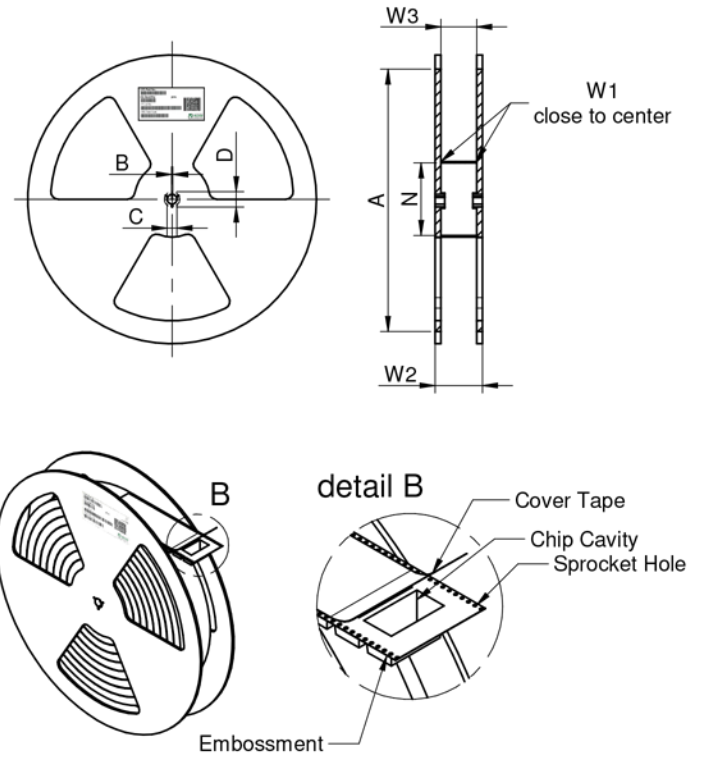
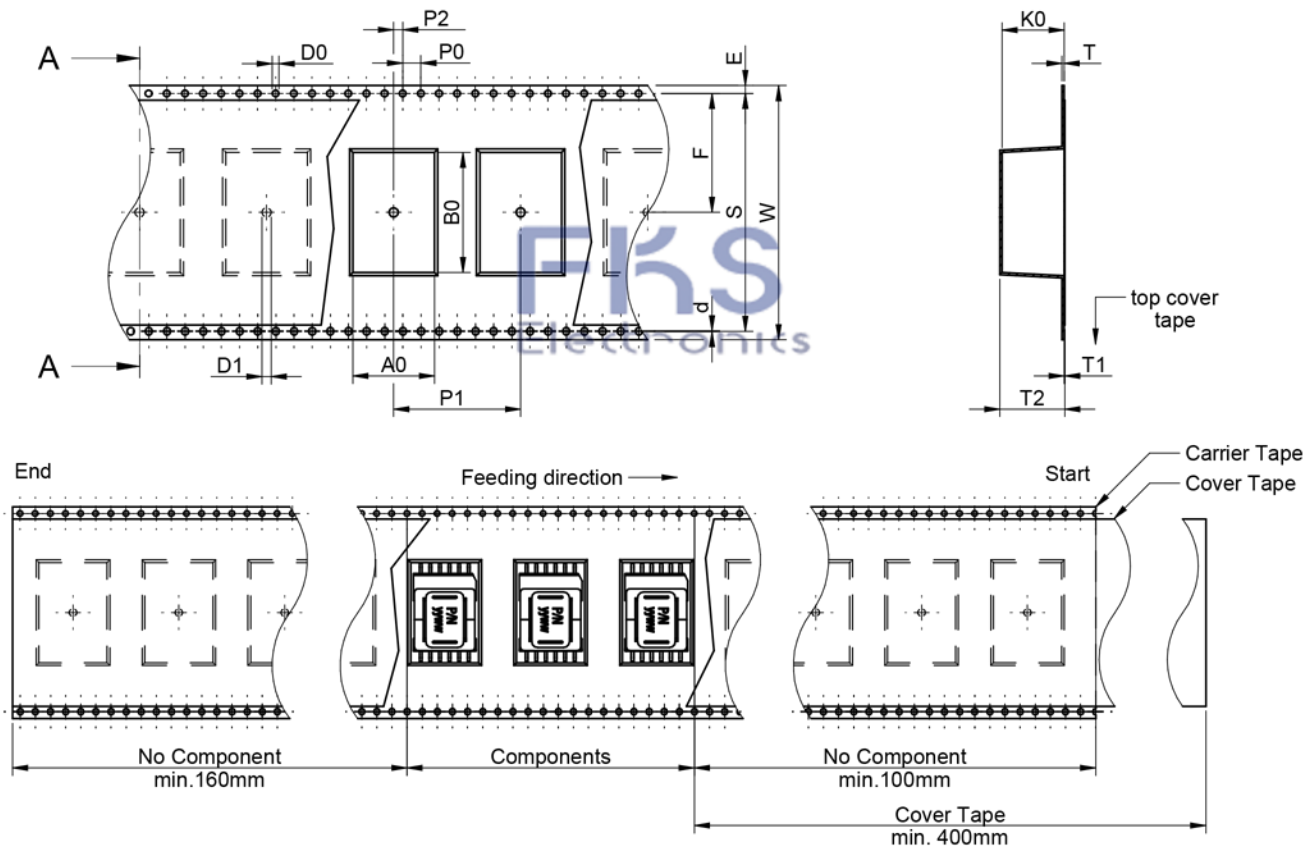


Typical Inductance vs. Current Characteristics:



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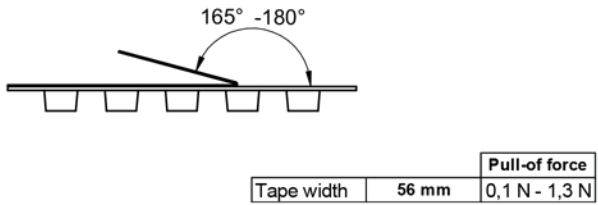
Packaging Specification - Tape and Reel: [mm]



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

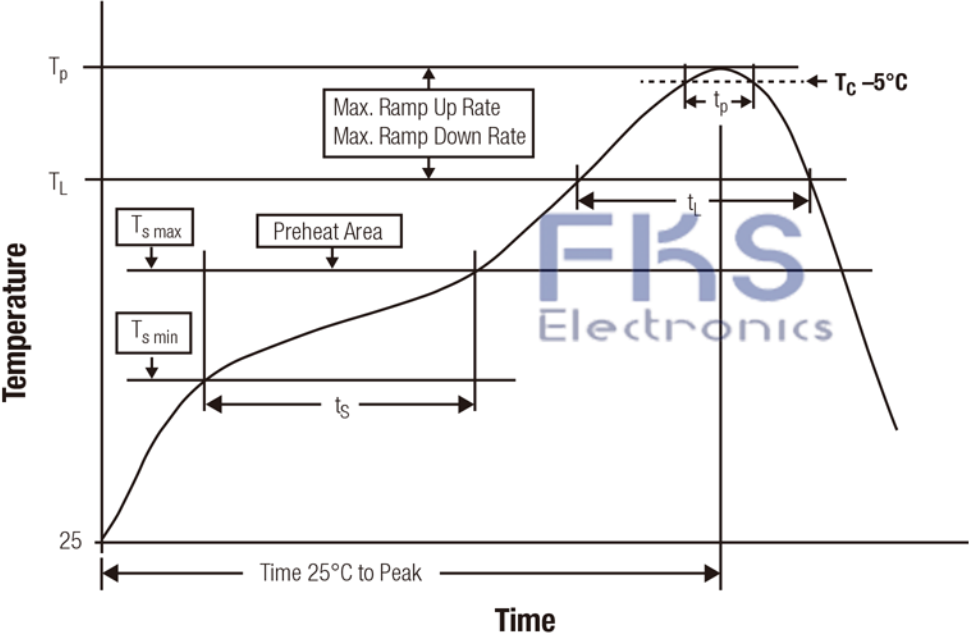
	A0	B0	W	T	T1	T2	K0	P0	P1	P2	D0	D0 / 2	D1	d	E	S	F	Tape Type 3	VPE / packaging unit
tolerance	typ.	typ.	±0.3	typ.	typ.	typ.	typ.	±0.1	±0.1	±0.15	+0.1/-0.0	+0.05/-0.0	typ.	+0.05	±0.1	±0.1	±0.1	pcs.	
size	EE-16-8-5	18	26.5	56	0.5	0.05	14.7	14.2	4	28	2	1.5	0.75	2	0.2	1.75	52.4	26.2	Polystyrene 150

	A	B	C	D	N	W1	W2	W3	W3
tolerance	± 2.0	min.	min.	min.	min.	+ 2	max.	min.	max.
Tape width	56 mm	330	1.5	12.8	20.2	80	56.4	62.4	55.9 59.4



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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 tempereau	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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	DESCRIPTION				
	Universal Offline Standard Transformers			ORDER CODE	
	SIZE/TYPE	BUSINESS UNIT	STATUS	PAGE	
	EE16/8/5		Draft		