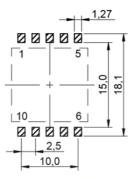


Scale - 1.5:1

Recommended Land Pattern: [mm]

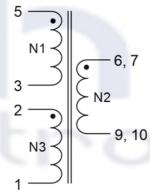


Scale - 1,5:1

Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 100 mV	L	38	μН	±10
Turns Ratio		n	5:1:2.5		±3
Saturation Current	IΔL/LI < 20 %	I _{SAT}	3.3	Α	typ.
DC Resistance 1	@ 20 °C	R _{DC}	100	mΩ	max.
DC Resistance 2	@ 20 °C	R _{DC}	4.5	mΩ	max.
DC Resistance 3	@ 20 °C	R _{DC}	255	mΩ	max.
Leakage Inductance	100 kHz/ 100 mV	L _S	0.625	μΗ	max.
Insulation Test Voltage	N1,4 => N2,3	U _T	1500	V (AC)	

Schematic:



N2 is made of two bifilar windings. Therefore customer has to tie terminals 6+7 and 9+10 on PCB. A general separation of the two windings cannot be guaranteed.

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) -20 °C up to +60 °C

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.

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Tel: +86-29-8868 5333 Fax: +86-29-8868 0913

FKS Electronics



	Dive Treneformer						-
	Power over Ethernet						
n,	DESCRIPTION						
	KaS	TBr	DIN ISO 2768-1m				
	CREATED	CHECKED	GENERAL TOLERANCE		PROJECTION METHOD		

l		OVOI EUIOITIO	ORDER CODE				
Plus Tra	nsformer						
			FKS750310744				
SIZE	REVISION	STATUS	DATE (YYYY-MM-DD)	BUSINESS UNIT	FAGE		
EP13	008.000	Valid	2017-06-08	eiSos	1/5		

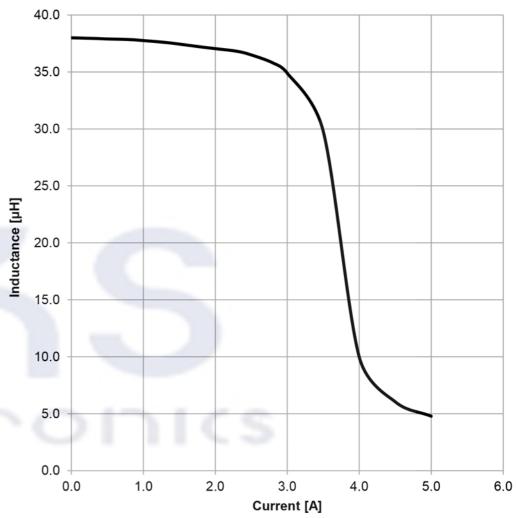
Application Properties:

Properties		Value	Unit
Input Voltage ¹⁾	U _i	37 - 57 V (DC)	
Output Voltage 1 ²⁾	U ₀₁	5	V
Output Current 1 3)	I ₀₁	5	Α
Auxiliary Voltage ⁴⁾	U _{aux}	12	V
Switching Frequency	f _{switch}	250-400 kHz	

1) N1 2) N2 3) N2 4) N3



Typical Inductance vs. Current Characteristics:



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Power over Ethernet Plus Transformer

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TBr

008.000

CREATED

KaS

EP13

REVISION STATUS

Valid

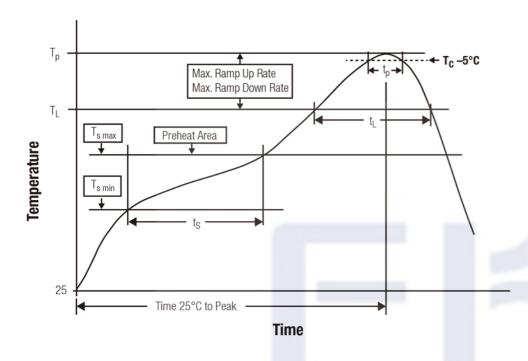
GENERAL TOLERANCE

DIN ISO 2768-1m

ORDER CODE FKS750310744 DATE (YYYY-MM-DD) BUSINESS UNIT PAGE 2017-06-08 2/5 eiSos

PROJECTION METHOD

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	Tp	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:

CREATED

CHECKED

Properties	Volume mm³ <350	Volume mm ³ 350-2000	Volume mm³ >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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,	• Power over Ethernet							
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PROJECTION

GENERAL TOLERANCE