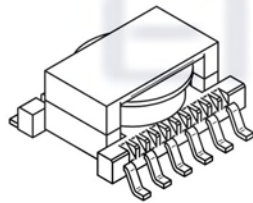
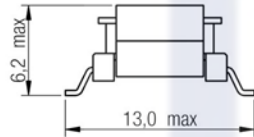
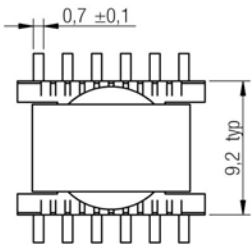
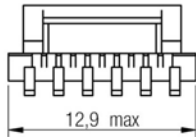
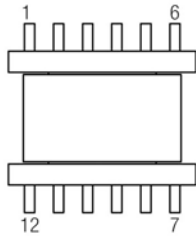
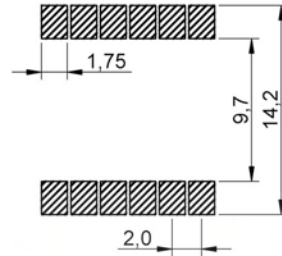


A Dimensions: [mm]



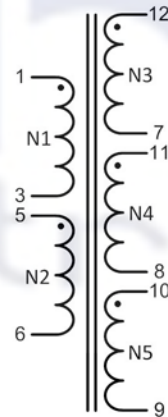
Scale - 2:1

B Recommended land pattern: [mm]



Scale - 2:1

C Schematic:



FKS
Electronics



D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 100 mV	L	400	µH	±10%
Turns ratio		n	1:0.25:0.08:0.08:0.08		±3%
Saturation current	$I_{\Delta L/L} < 20\%$	I_{sat}	0.3	A	typ.
DC Resistance 1	@ 20°C	R_{DC1}	1.1	Ω	max.
DC Resistance 2	@ 20°C	R_{DC2}	0.8	Ω	max.
DC Resistance 3	@ 20°C	R_{DC3}	30.0	mΩ	max.
DC Resistance 4	@ 20°C	R_{DC4}	30.0	mΩ	max.
DC Resistance 5	@ 20°C	R_{DC5}	30.0	mΩ	max.
Leakage inductance	100 kHz/ 100 mV	L_S	4.0	µH	max.
Insulation test voltage	$N_{1,2} \Rightarrow N_{3,4,5}$	U_T	1500	V (AC)	

E General information:

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

- Storage Temperature: -20°C to 60°C
- Operating Temperature: -40°C to 125°C
- Test conditions of Electrical Properties: 20°C, 33% RH if not specified differently

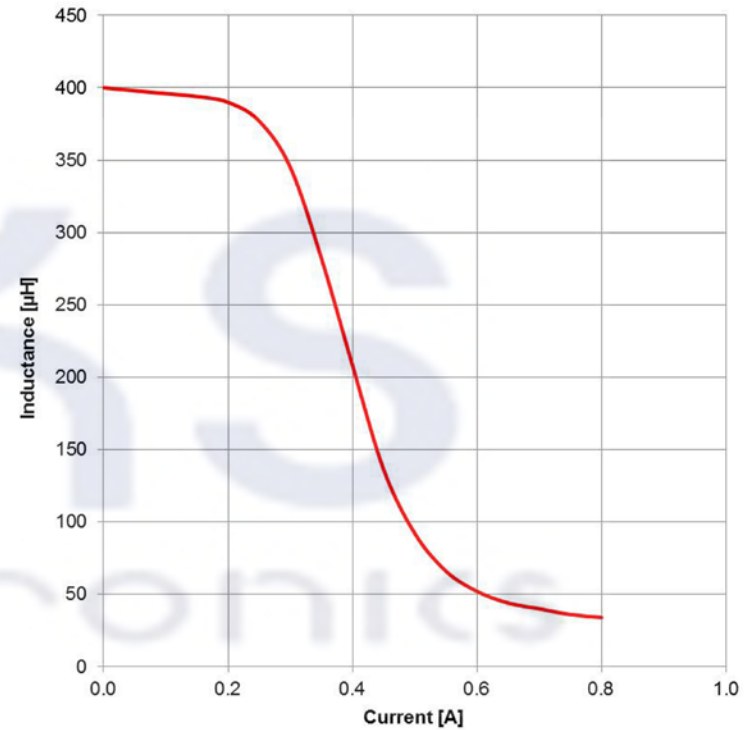
				Projection 	DESCRIPTION
					Power over Ethernet Transformer
				Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913	Order.- No.
	2014-01-27	--		FKS Electronics	FKS749119133
	DATE				Size: ER11/5
					SIZE A4



D2 Application Properties:

Properties		Value	Unit
Input voltage	U_i	36-57	V (DC)
Output voltage 1 (N3)	U_{O1}	3.3	V
Output current 1 (N3)	I_{O1}	0.4	A
Output voltage 2 (N4)	U_{O2}	3.3	V
Output current 2 (N4)	I_{O2}	0.4	A
Output voltage 3 (N5)	U_{O3}	3.3	V
Output current 3 (N5)	I_{O3}	0.4	A
Auxiliary voltage (N2)	U_{aux}	10	V
Switching frequency	f_{switch}	200-500	kHz

F1 Typical Inductance vs. Current Characteristics:

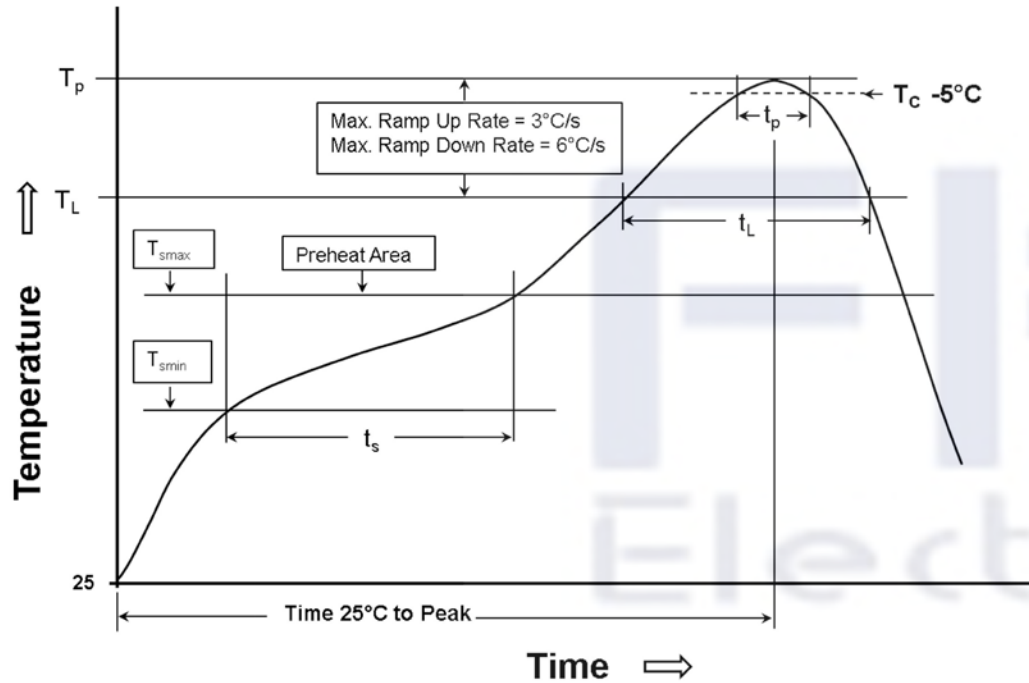


				Projection 	DESCRIPTION
					PoE Power over Ethernet Transformer
				Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengzi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913	Order.- No.
	2014-01-27				COMPLIANT RoHS&REACH
					SIZE
					A4
	DATE				Size: ER11/5



H Soldering Specifications:

H1: Classification Reflow Profile for SMT components:



H2: Classification Reflow Profiles

Profile Feature	Pb-Free Assembly
Preheat - Temperature Min (T_{smin}) - Temperature Max (T_{smax}) - Time (t_s) from (T_{smin} to T_{smax})	150°C 200°C 60-120 seconds
Ramp-up rate (T_L to T_P)	3°C/ second max.
Liquidous temperature (T_L) Time (t_L) maintained above T_L	217°C 60-150 seconds
Peak package body temperature (T_P)	See Table H3
Time within 5°C of actual peak temperature (t_p)	20-30 seconds
Ramp-down rate (T_P to T_L)	6°C/ second max.
Time 25°C to peak temperature	8 minutes max.

refer to IPC/JEDEC J-STD-020D

H3: Package Classification Reflow Temperature

	Package Thickness	Volume mm ³ <350	Volume mm ³ 350 - 2000	Volume mm ³ >2000
PB-Free Assembly	< 1.6 mm	260°C	260°C	260°C
PB-Free Assembly	1.6 - 2.5 mm	260°C	250°C	245°C
PB-Free Assembly	≥ 2.5 mm	250°C	245°C	245°C

refer to IPC/JEDEC J-STD-020D

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					PoE Power over Ethernet Transformer
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