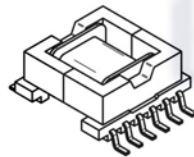
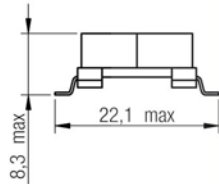
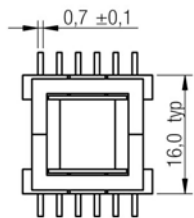
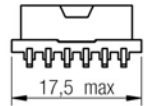
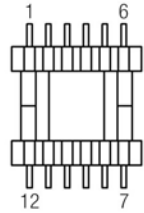
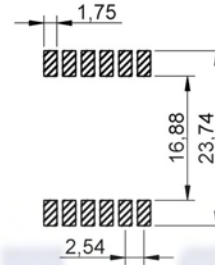


**A Dimensions: [mm]**



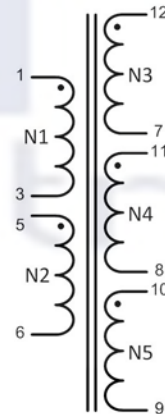
Scale - 1:1

**B Recommended land pattern: [mm]**



Scale - 1:1

**C Schematic:**



**D Electrical Properties:**

Properties	Test conditions		Value	Unit	Tol.
<b>Inductance</b>	100 kHz/ 100 mV	L	120	µH	±10%
<b>Turns ratio</b>		n	1:0.39:0.07:0.07:0.07		±3%
<b>Saturation current</b>	$I_{\Delta L/L} < 20\%$	$I_{sat}$	1.0	A	typ.
<b>DC Resistance 1</b>	@ 20°C	$R_{DC1}$	190	mΩ	max.
<b>DC Resistance 2</b>	@ 20°C	$R_{DC2}$	240	mΩ	max.
<b>DC Resistance 3</b>	@ 20°C	$R_{DC3}$	8.5	mΩ	max.
<b>DC Resistance 4</b>	@ 20°C	$R_{DC4}$	8.5	mΩ	max.
<b>DC Resistance 5</b>	@ 20°C	$R_{DC5}$	8.5	mΩ	max.
<b>Leakage inductance</b>	100 kHz/ 100 mV	$L_S$	2.5	µH	max.
<b>Insulation test voltage</b>	N1,2 => N3,4,5	$U_T$	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



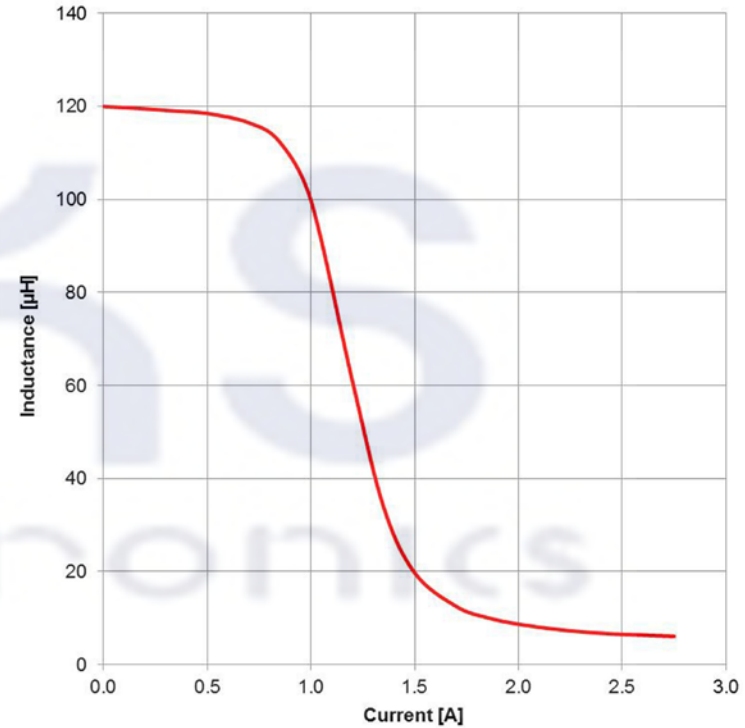
				Projection		DESCRIPTION
						<b>PoE Power over Ethernet Transformer</b>
				Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengzi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913		Order.- No.
	2014-01-27					FKS749119318
	DATE					COMPLIANT RoHS&REACH
						SIZE A4



**D2 Application Properties:**

Properties		Value	Unit
Input voltage (N1)	$U_i$	36-57	V (DC)
Output voltage 1 (N3)	$U_{01}$	1.8	V
Output current 1 (N3)	$I_{01}$	2.4	A
Output voltage 2 (N4)	$U_{02}$	1.8	V
Output current 2 (N4)	$I_{02}$	2.4	A
Output voltage 3 (N5)	$U_{03}$	1.8	V
Output current 3 (N5)	$I_{03}$	2.4	A
Auxiliary voltage (N2)	$U_{aux}$	10	V
Switching frequency	$f_{switch}$	200-500	kHz

**F1 Typical Inductance vs. Current Characteristics:**

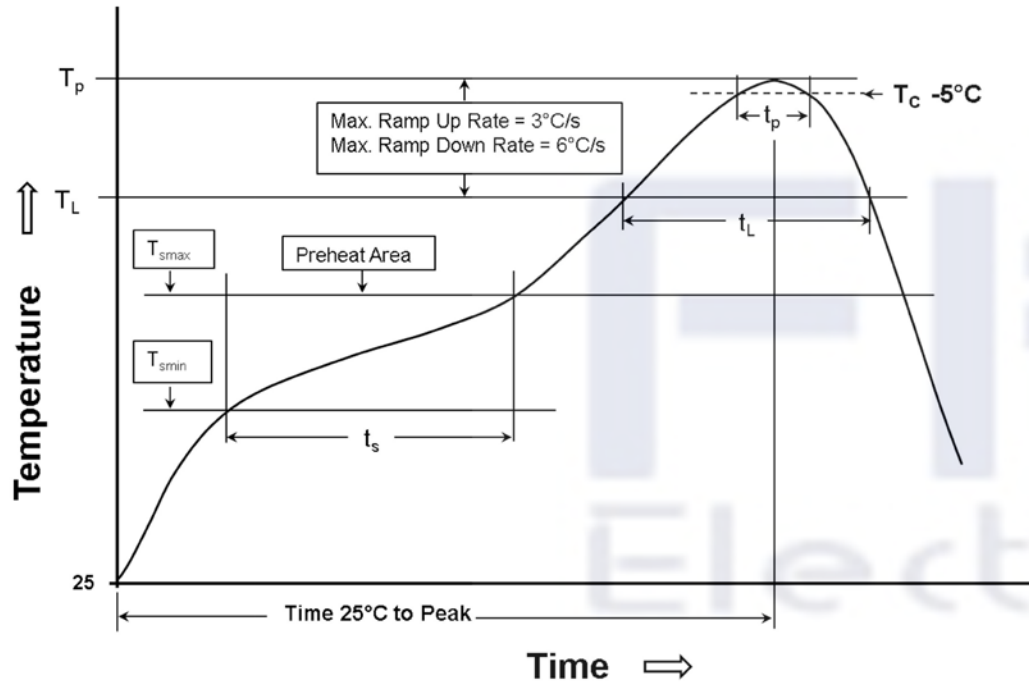


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					SIZE A4
		DATE			



## 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 <sup>3</sup> <350	Volume mm <sup>3</sup> 350 - 2000	Volume mm <sup>3</sup> >2000
<b>PB-Free Assembly</b>	< 1.6 mm	260°C	260°C	260°C
<b>PB-Free Assembly</b>	1.6 - 2.5 mm	260°C	250°C	245°C
<b>PB-Free Assembly</b>	≥ 2.5 mm	250°C	245°C	245°C

refer to IPC/JEDEC J-STD-020D

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