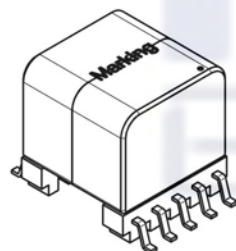
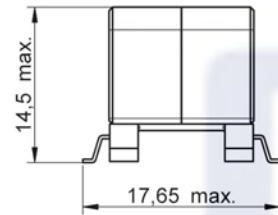
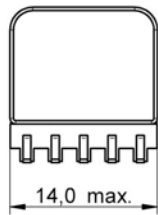
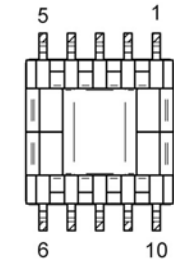


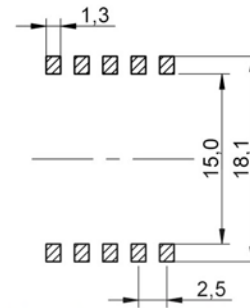


A Dimensions: [mm]



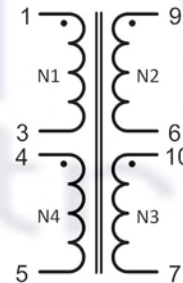
Scale - 1,5:1

B Recommended land pattern: [mm]



Scale - 1,5:1

C Schematic:



D Electrical Properties:

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 100 mV	L	100	μH	±25%
Turns ratio		n	1.71:1:1:0.86		±3%
Saturation current	$I_{\Delta L/L} < 20\%$	I_{sat}	1	A	typ.
DC Resistance 1	@ 20°C	R_{DC1}	50	mΩ	max.
DC Resistance 2	@ 20°C	R_{DC2}	30	mΩ	max.
DC Resistance 3	@ 20°C	R_{DC3}	35	mΩ	max.
DC Resistance 4	@ 20°C	R_{DC4}	100	mΩ	max.
Leakage inductance	100 kHz/ 100 mV	L_S	0.5	μH	max.
Insulation test voltage	prim => sec	U_T	1500	V (AC)	
Insulation test voltage	N2 => N3, N1 => N4	U_T	500	V (AC)	
Voltage-μSecond	B = 280 mT	$\int U dt$	106.5	μVs	typ.

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 High Power 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. FKS7491196112
				2014-08-04	SIZE A4
				DATE	Size: EPQ13



D2 Application Properties:

Properties		Value	Unit
Input voltage (N1)	U_i	33-57	V (DC)
Output voltage 1 (N2)	U_{O1}	12	V
Output current 1 (N2)	I_{O1}	2.5	A
Output voltage 2 (N3)	U_{O2}	12	V
Output current 2 (N3)	I_{O2}	2.5	A
Auxiliary voltage (N4)	U_{aux}	10	V
Switching frequency	f_{switch}	200-400	kHz

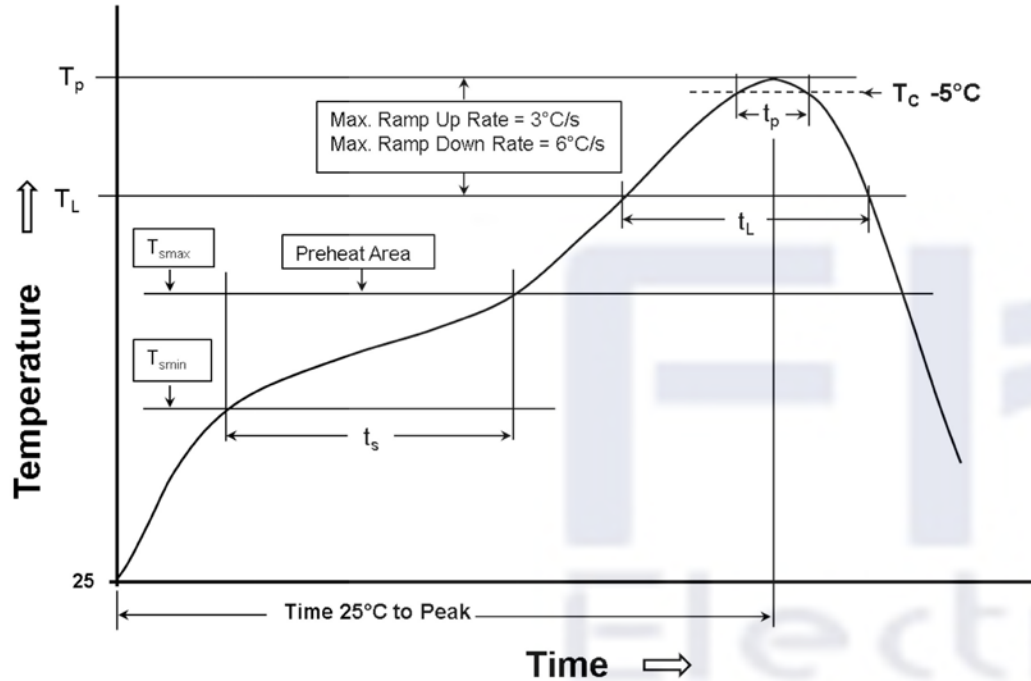


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H Soldering Specifications:

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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