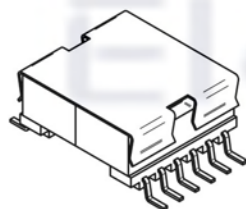
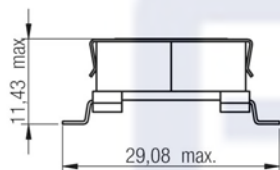
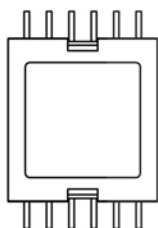
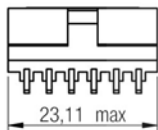
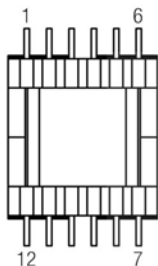
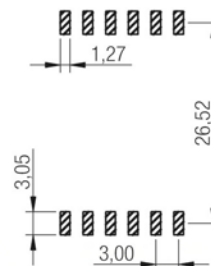
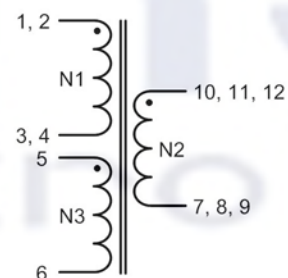


A Dimensions: [mm]

Scale - 1:1

B Recommended land pattern: [mm]

Scale - 1:1

C Schematic:**D Electrical Properties:**

Properties	Test conditions		Value	Unit	Tol.
Inductance	100 kHz/ 100 mV	L	42	μH	±10%
Turns ratio		n	3 : 1 : 1		±3%
Saturation current	$I_{\Delta L/L} < 20\%$	I_{sat}	6.6	A	typ.
DC Resistance 1	@ 20°C	R_{DC1}	61	mΩ	max.
DC Resistance 2	@ 20°C	R_{DC2}	18	mΩ	max.
DC Resistance 3	@ 20°C	R_{DC3}	180	mΩ	max.
Leakage inductance	100 kHz/ 100 mV	L_S	0.545	μH	max.
Insulation test voltage	N1,4 => N2,3	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

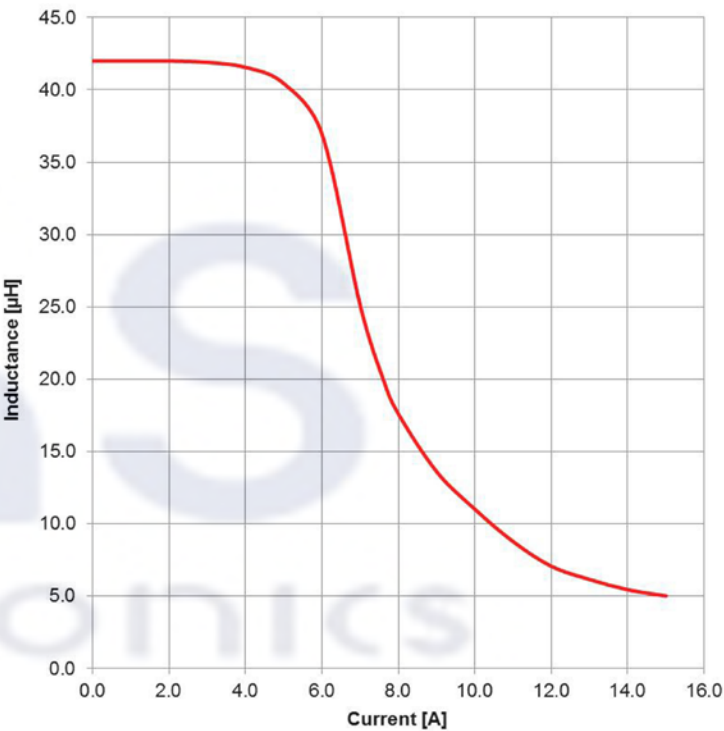
				Projection 	DESCRIPTION
					Power over Ethernet Plus Transformer
				Shaanxi FKS Electronic Parts Import&Export Co.,Ltd. FKS(Xi'an) Electronic Technology Co.,Ltd. Address: B1 Building,Western Cloud Valley,Fengxi New Town, Xixian New Area,Xi'an City, Shaanxi Province,China. Tel: +86-29-8868 5333 Fax: +86-29-8868 0913	Order.- No.
	2014-09-22				FKS7491194912
					SIZE
					A4
	DATE				Size: EFD20



D2 Application Properties:

Properties		Value	Unit
Input voltage (N1)	U_i	36-72	V (DC)
Output voltage 1 (N2)	U_{O1}	12.0	V
Output current 1 (N2)	I_{O1}	2.5	A
Auxiliary voltage (N3)	U_{aux}	12.0	V
Switching frequency	f_{switch}	250-400	kHz

F1 Typical Inductance vs. Current Characteristics:

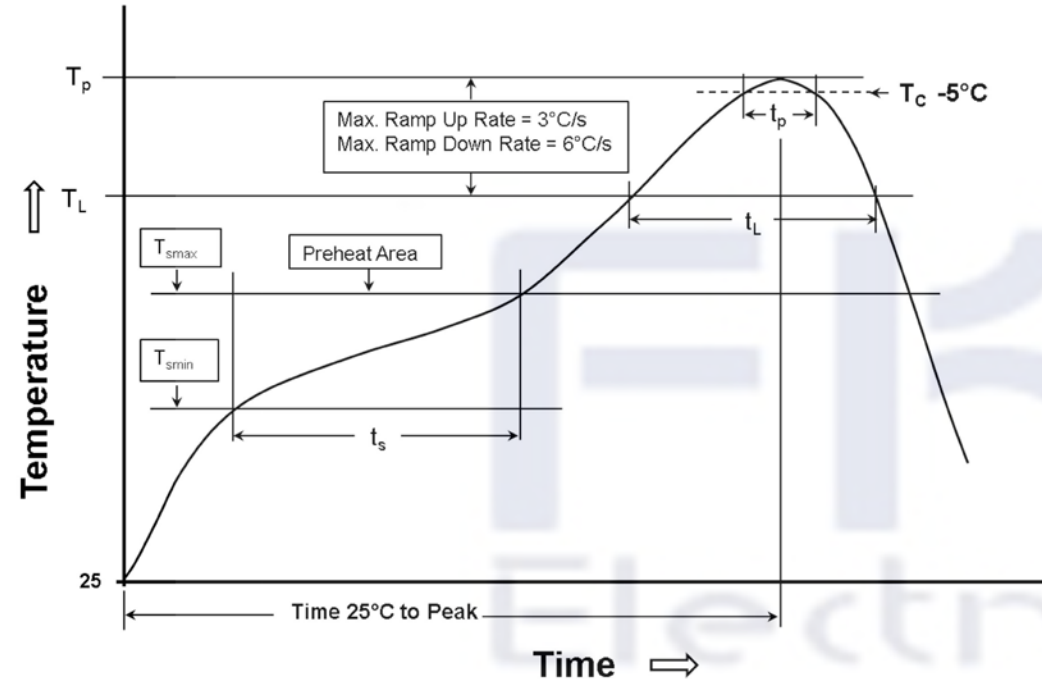


				Projection 		DESCRIPTION
						Power over Ethernet Plus Transformer
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						COMPLIANT RoHS&REACH
						Size: EFD20
						SIZE A4
	2014-09-22					
	DATE					

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 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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	2014-09-22				FKS7491194912		A4	
	2012-07-01							
	DATE					Size: EFD20		