Coilmaster Electronics Co., Ltd. info@coilmaster.com.tw

TEL : +886-3-422-8279 FAX : +886-3-422-8734 www.coilmaster.com.tw

9F-3 No.398, Huan Bei Road, Chung Li City , Taoyuan 320, Taiwan .

SMT PoE Transformers ~ EFD20XFS-LF SERIES

RoHS Compliant

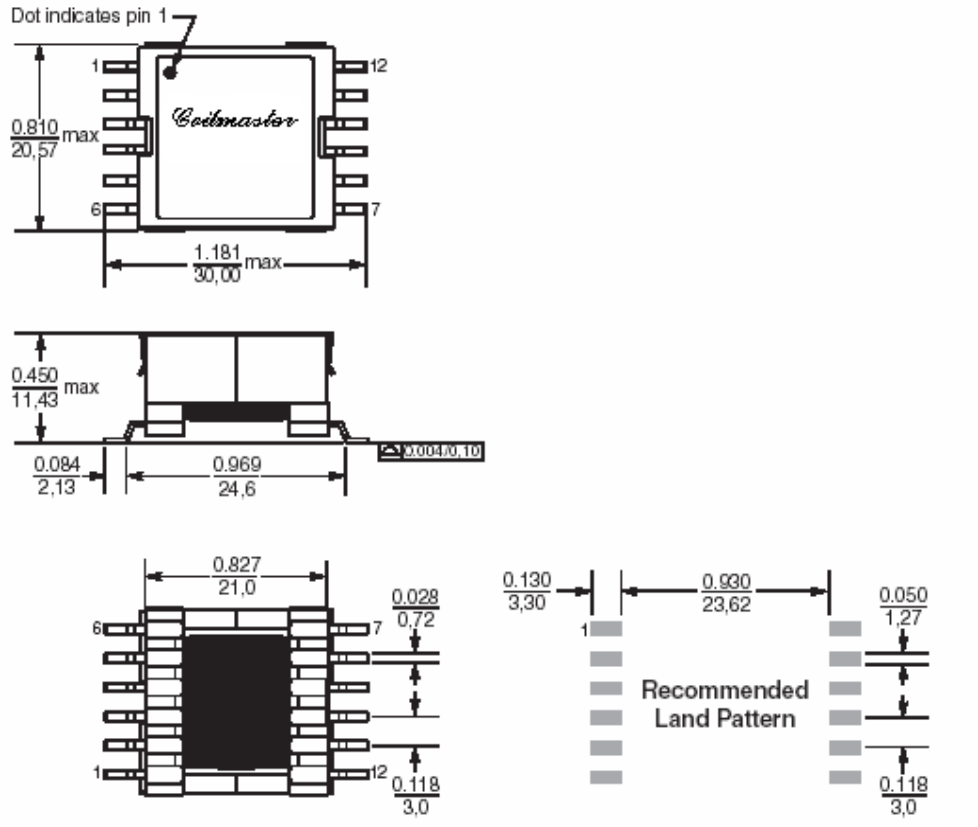
PART NUMBERING SYSTEM

EFD	–	20XFS	–	0F50L	–	LF
TYPE		DIMENSIONS		MODEL		LEAD FREE

FEATURES

- Designed to meet 30 W PoE objectives of IEEE 802.3at.
- Operates at 250KHz with 30 to 72 Volts input .
- **1500 Vrms isolation between the primary and the secondary windings**

SHAPES AND DIMENSIONS



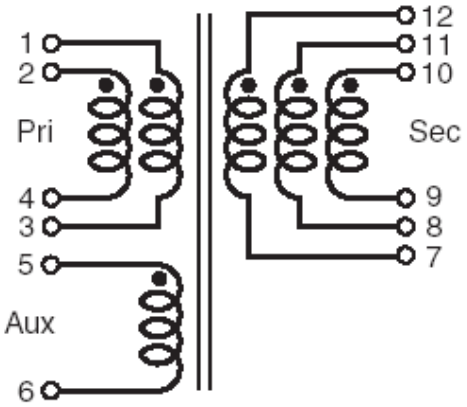
Coilmaster Electronics Co., Ltd. info@coilmaster.com.tw

TEL : +886-3-422-8279 FAX : +886-3-422-8734 www.coilmaster.com.tw

9F-3 No.398, Huan Bei Road, Chung Li City , Taoyuan 320, Taiwan .

SMT PoE Transformers ~ EFD20XFS-LF SERIES

SCHEMATIC



The primary windings and secondary windings are to be connected in parallel on PC board.

ELECTRICAL CHARACTERISTICS :

PART NUMBER	Power (W)	Inductance (uH)@ 0A2	L@IPk 3 Min.	DCR(ohm)4 MAX			Leakage L(uH)5 Max.	I Pk3 (A)	Turns ratio6		Out Put7
				pri	sec	biase			Pri : Sec	Pri : Aux	Pri : Sec
EFD20XFS-0F33L-LF	30	42±10%	37.8uH	0.07	0.0023	0.22	3	2.6	1:0.09	1:0.33	3.3V ; 9.0A
EFD20XFS-0F50L-LF	30	42±10%	37.8uH	0.069	0.005	0.225	1.6	2.6	1:0.14	1:0.33	5.0V ; 6.0A
EFD20XFS-0F12L-LF	30	42±10%	37.8uH	0.061	0.015	0.195	0.545	2.6	1:0.33	1:0.33	12 ; 2.5A
EFD20XFS-0F19L-LF	30	42±10%	37.8uH	0.06	0.037	0.195	0.43	2.6	1:0.56	1:0.33	19.5V ; 1.5A
EFD20XFS-0F24L-LF	30	42±10%	37.8uH	0.06	0.055	0.195	0.31	2.6	1:067	1:0.33	24V ; 1.25A

1) When ordering , please specify packaging code as following :
   EFD20XFS-0F50L-LF
2) Inductance measured at 250 kHz, 0.25 Vrms, 0 Adc.
3) Peak primary current drawn at minimum input voltage
4) DCR is with the windings connected in paralle .
5) Leakage inductance is for the primary winding with the secondary windings shorted .
6) Turns ratio is with the primary winding with the secondary windings connected in paralle.
7) Output is with the secondary windings connected in parallel .
   Output of the auxiliary winding is 12V .
8) Operating temperature range from -40°C to +125°C .
9) Electrical specifications at 25°C