

POWER OVER ETHERNET TRANSFORMERS 以太网电源变压器 POE 系列

FEATURES

- Developed for Powered Devices (PD) in IEEE 802.3at compliant PoE applications.
- Designed to operate in continuous mode.
- 36–72 V input with versions for 30 Watt output.
- Bias winding output: 12 V, Sync winding output: 5 V.
- 250 kHz switching frequency.

特 征

- 专为符合 IEEE 802.3at 的 PoE 应用中的受电设备 (PD) 开发;
- 设计用于连续模式;
- 36 – 72 V 输入, 30 瓦输出的版本;
- 偏置绕组输出: 12 V, 同步绕组输出 5V;
- 250 kHz 开关频率。

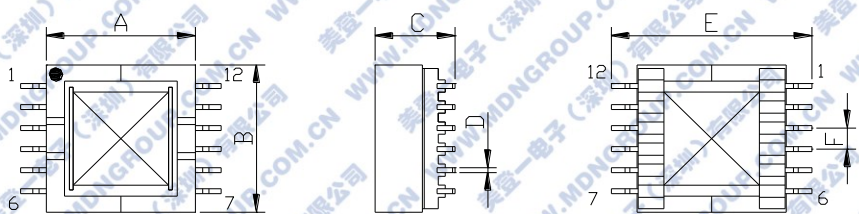
APPLICATIONS

- FCT1-xxD3SL Forward-Mode Transformers for Power over Ethernet.

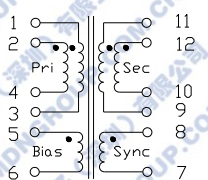
用 途

- 适用于以太网供电。

DIMENSIONS AND LAND PATTERNS(mm)

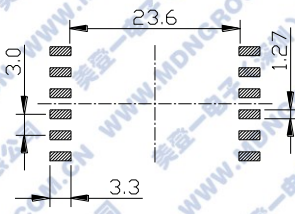


SCHMATICS



Pri and Sec windings to be connected in parallel on the PC board.

LAND PATTERN



A ±0.8	B max	C max
21.0	21.5	11.5
D ±0.2	E max	F ±0.2
0.7	30.0	3.0

SPECIFICATION

P/N	L (uH) Min	Lk (uH) Max	DCR(m Ω)Max				Turns ratio			Output
			Pri	Sec	Bias	Sync	Pri:Sec	Pri:Bias	Pri:Sync	
FCT1-33D3SL	72.9	0.425	27.5	5.0	250	160	1:0.33	1:1	1:0.56	3.3V,9A
FCT1-50D3SL	72.9	0.420	27.5	10.0	250	160	1:0.44	1:1	1:0.56	5V,6A
FCT1-120D3SL	72.9	0.175	27.5	28.5	250	160	1:1	1:1	1:0.56	12V,2.5A
FCT1-195D3SL	72.9	0.235	27.5	32.0	235	120	1:1.44	1:0.88	1:0.44	19.5V,1.5A
FCT1-240D3SL	72.9	0.235	27.5	72.5	235	120	1:1.78	1:0.88	1:0.44	24V,1.25A

Remark:1. Inductance is for the primary ,measured at 250KHz,0.2V,0 Adc.

2.DCR for the secondary is measured with the windings connected in parallel.