FLYBACK TRANSFORMERS 反激变压器 TE20F-SERIES

FEATURES

- Low cost ,less external components needed.
- Small board space,no optocoupler needed.
- Long term reliability voltage control,no aging.
- Same external parts for different output voltages.
- Easy design of custom power supply due to standard circuit and change of transformers and two components for feedback loop.
- Isolation voltage up to 2.5 Kv.

特　　征

- 低成本，所需外部组件更少。
- 小板空间，不需要光耦。
- 长期可靠性电压控制，不老化。
- 不同输出电压的相同外部部件。
- 由于标准电路和变压器以及反馈回路的两个组件的变化，定制电源的设计很容易。
- 隔离电压高达 2.5 kV。

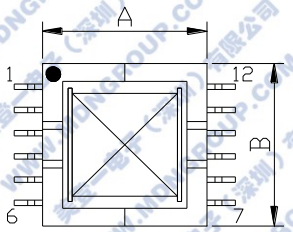
APPLICATIONS

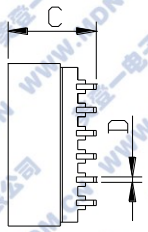
- Isolated power design.
- Sensor interfaces.
- Isolated telecom converters.
- Power over Ethernet.

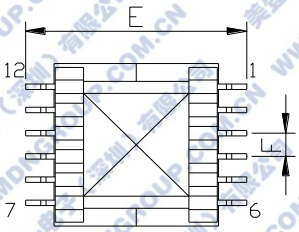
用　　途

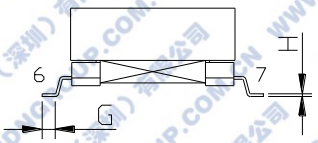
- 隔离电源设计。
- 传感器接口。
- 隔离电信转换器。
- 以太网供电。

DIMENSIONS AND LAND PATTERNS(mm)

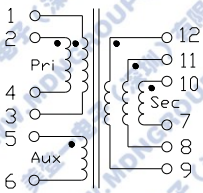






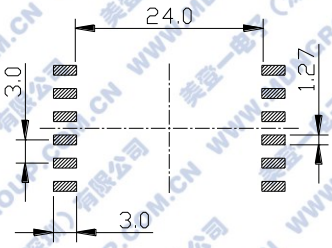


SCHEMATICS



Custormer to tie terminals 1+2, 3+4, 7+8+9 and 10+11+12 on pcb.

LAND PATTERN



A±0.8	B max	C max	D±0.2	E max	F±0.2	G Ref	H Ref
21.0	23.0	12.5	0.70	29.0	3.0	2.0	0.35

SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	Pri-Sec VAC
750310617	4.5	0.15	14.0	0.010	0.130	0.023	1:1.166	1:1.166	1:1	1500

Notes: L&Lk is for pri winding, L test frequency 100KHz, 0.1V; Lk test frequency 100KHz, 0.01V.
Pri: 9-36VDC,200KHz ; Aux: 12VDC , 20mA; Sec: 12VDC , 3A.
The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 7+8+9 and 10+11+12.

FLYBACK TRANSFORMERS 反激变压器 TE20F-SERIES

FEATURES

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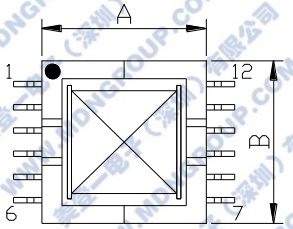
APPLICATIONS

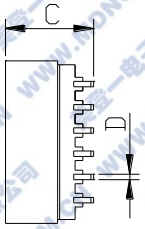
- Isolated power design.
- Sensor interfaces.
- Isolated telecom converters.
- Power over Ethernet.

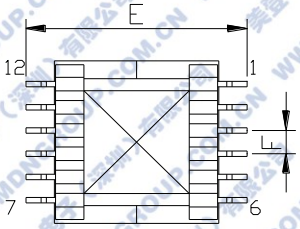
用　　途

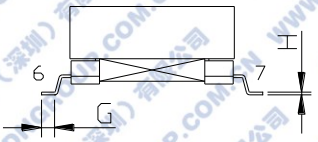
- 隔离电源设计。
- 传感器接口。
- 隔离电信转换器。
- 以太网供电。

DIMENSIONS AND LAND PATTERNS(mm)

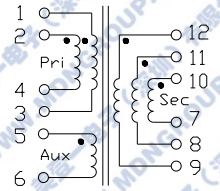






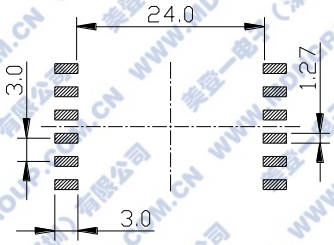


SCHEMATICS



Custormer to tie terminals 1+2, 3+4, 7+8+9 and 10+11+12 on pcb.

LAND PATTERN



A±0.8	B max	C max	D±0.2	E max	F±0.2	G Ref	H Ref
21.0	23.0	12.5	0.70	29.0	3.0	2.0	0.35

SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	Pri-Sec VAC
750311797	14.0	0.21	11.5	0.055	0.070	0.012	2.5:1	2.5:1	1:1	4000

Notes: L&Lk is for pri winding, L test frequency 150KHz, 0.1V; Lk test frequency 100KHz, 0.05V.
Pri:18-100VDC,200KHz ; Aux: 12VDC , 20mA; Sec: 12VDC , 2.5A.
The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 7+8+9 and 10+11+12.

FLYBACK TRANSFORMERS 反激变压器 TE20F-SERIES

FEATURES

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APPLICATIONS

- Isolated power design.
- Sensor interfaces.
- Isolated telecom converters.
- Power over Ethernet.

用 途

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- 隔离电信转换器。
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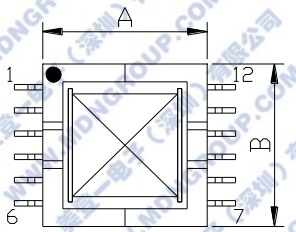
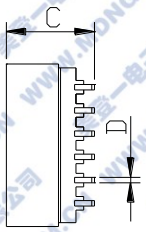
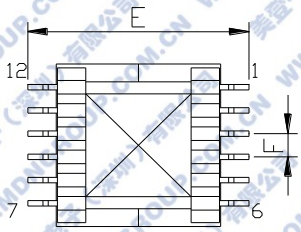
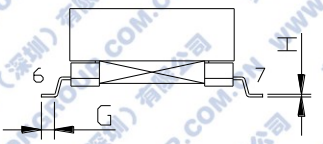
DIMENSIONS AND LAND PATTERNS(mm)

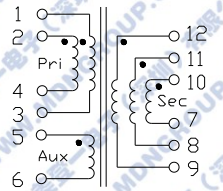






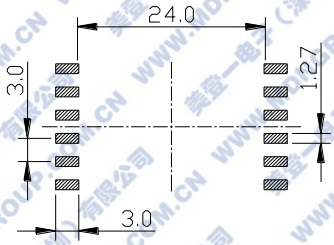


SCHEMATICS



Custormer to tie terminals 1+2, 3+4, 7+8+9 and 10+11+12 on pcb.

LAND PATTERN



A±0.8	B max	C max	D±0.2	E max	F±0.2	G Ref	H Ref
21.0	23.0	12.5	0.70	29.0	3.0	2.0	0.35

SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric
				Pri ±20%	Aux ±20%	Sec ±20%	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	Pri-Sec VAC
750311385	15.0	0.2	6.75	0.02	0.205	0.012	1.111:1	1:1.25	1:1	1500

Notes: L&Lk is for pri winding, L test frequency 100KHz, 0.1V; Lk test frequency 100KHz, 0.05V.
Pri:18-60VDC,210KHz ; Aux: 14VDC , 50mA; Sec: 13VDC , 2.3A.
The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 7+8+9 and 10+11+12.

FLYBACK TRANSFORMERS 反激变压器 TE20F-SERIES

FEATURES

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APPLICATIONS

- Isolated power design.
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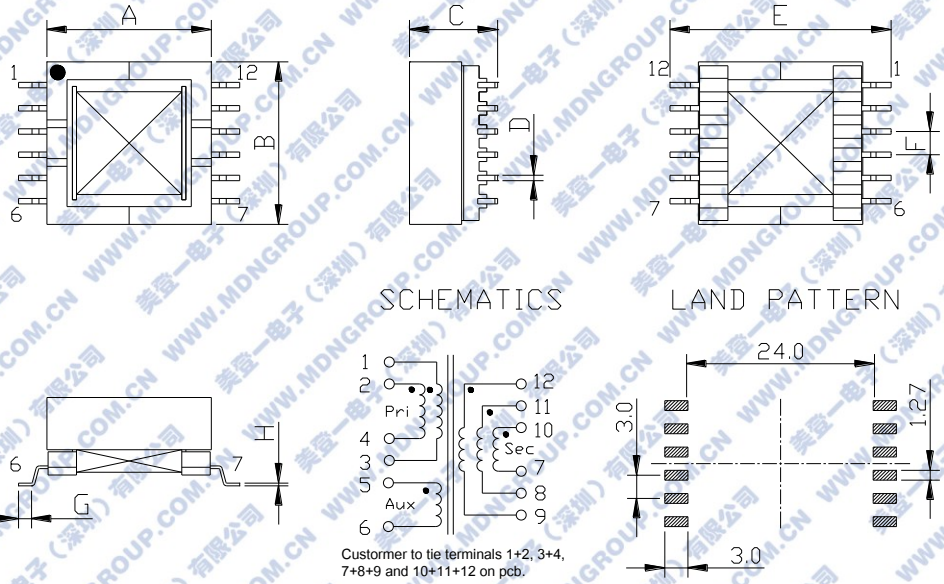
DIMENSIONS AND LAND PATTERNS(mm)



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				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	Pri-Sec VAC
750311597	6.0	0.3	9.5	0.020	0.055	0.004	1.5:1	3:1	1:1	1500

Notes: L&Lk is for pri winding, L test frequency 150KHz, 0.1V; Lk test frequency 150KHz, 0.01V.
Pri:20-48VDC,210KHz ; Aux: 10VDC ,20mA; Sec:5VDC , 6A.
The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 7+8+9 and 10+11+12.

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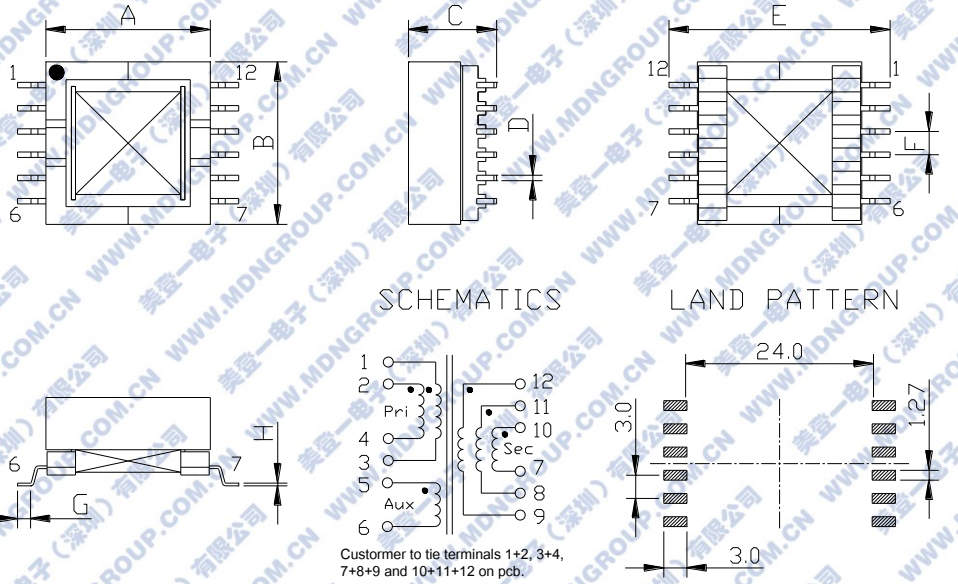

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				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	Pri-Sec VAC
750311598	8.3	0.3	9.0	0.030	0.060	0.008	2.5:1	2:1	1:1	1500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 250KHz, 0.1V.
Pri:20-48VDC,210KHz ; Aux: 10VDC ,20mA; Sec:12VDC , 2.5A.
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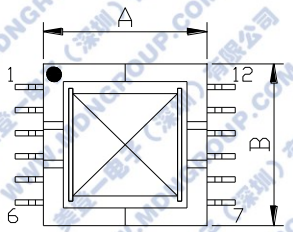
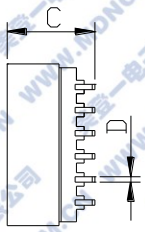
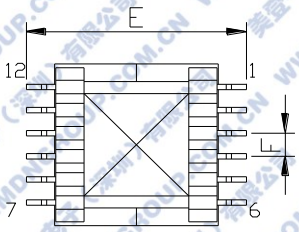
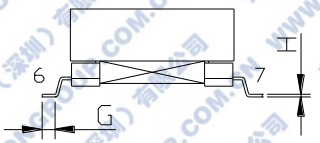
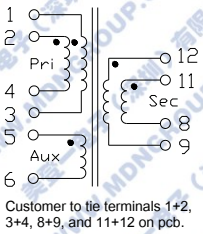






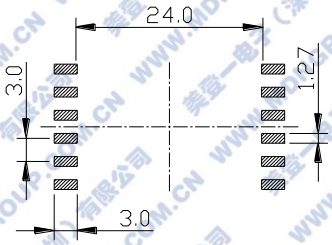


SCHEMATICS



Customer to tie terminals 1+2, 3+4, 8+9, and 11+12 on pcb.

LAND PATTERN



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SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	Pri-Sec VAC
750311599	8.0	1.0	12	0.030	0.040	0.012	2.25:1	1.5:1	1:1	1500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 250KHz, 0.1V.
Pri:20-48VDC,210KHz ; Aux: 10VDC,20mA; Sec:12VDC, 2.0A.
The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 8+9 and 11+12.

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FEATURES

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用　　途

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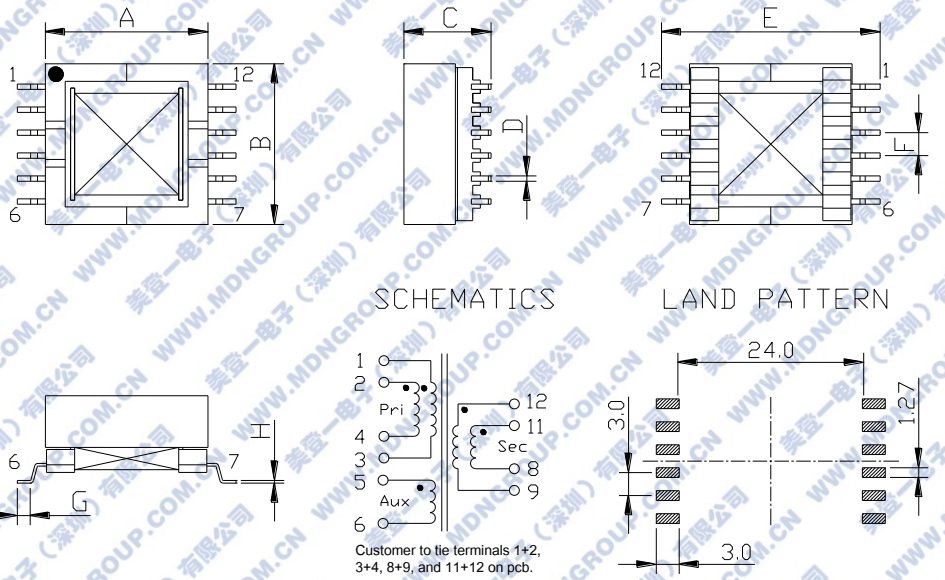
- 以太网供电。

DIMENSIONS AND LAND PATTERNS(mm)



A±0.8	B max	C max	D±0.2	E max	F±0.2	G Ref	H Ref
21.0	23.0	12.5	0.70	29.0	3.0	2.0	0.35

SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	Pri-Sec VAC
750311604	8.0	0.4	9.5	0.030	0.055	0.035	2.4:1	1:1	1:1	1500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 100KHz, 0.01V.
Pri:20-48VDC,210KHz ; Aux: 10VDC,20mA; Sec:24VDC,1.3A.
The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 8+9 and 11+12.

FLYBACK TRANSFORMERS 反激变压器 TE20F-SERIES

FEATURES

- Low cost ,less external components needed.
- Small board space,no optocoupler needed.
- Long term reliability voltage control,no aging.
- Same external parts for different output voltages.
- Easy design of custom power supply due to standard circuit and change of transformers and two components for feedback loop.
- Isolation voltage up to 2.5 Kv.

特 征

- 低成本，所需外部组件更少。
- 小板空间，不需要光耦。
- 长期可靠性电压控制，不老化。
- 不同输出电压的相同外部部件。
- 由于标准电路和变压器以及反馈回路的两个组件的变化，定制电源的设计很容易。
- 隔离电压高达 2.5 kV。

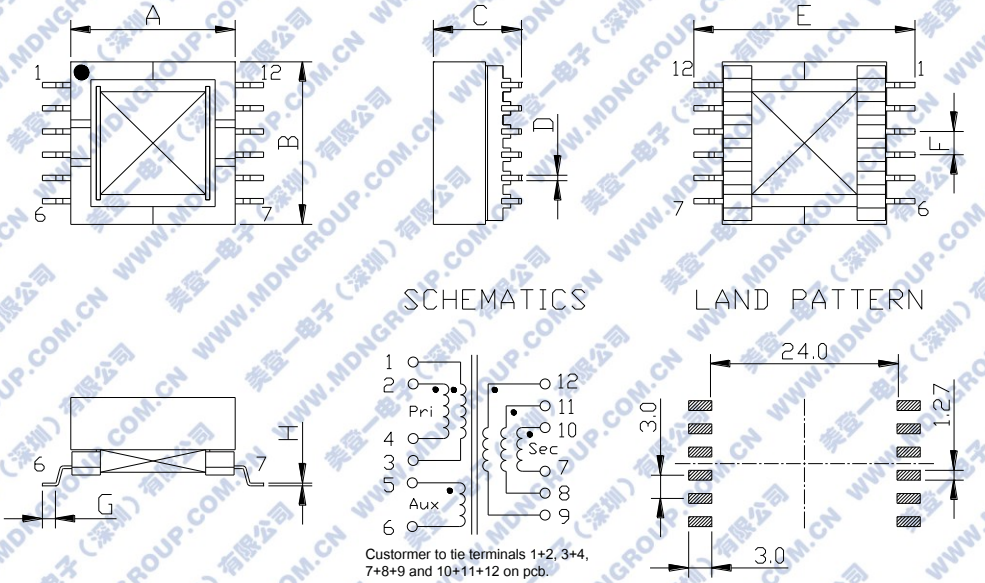
APPLICATIONS

- Isolated power design.
- Sensor interfaces.
- Isolated telecom converters.
- Power over Ethernet.

用 途

- 隔离电源设计。
- 传感器接口。
- 隔离电信转换器。
- 以太网供电。

DIMENSIONS AND LAND PATTERNS(mm)



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SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	Pri-Sec VAC
750311605	15.0	0.55	9.5	0.040	0.070	0.005	1.75:1	3.5:1	1:1	1500

Notes: L&Lk is for pri winding, L test frequency 150KHz, 0.1V; Lk test frequency 100KHz, 0.05V.
Pri:30-75VDC,210KHz ; Aux: 10VDC ,20mA; Sec:5VDC , 6A.
The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 7+8+9 and 10+11+12.

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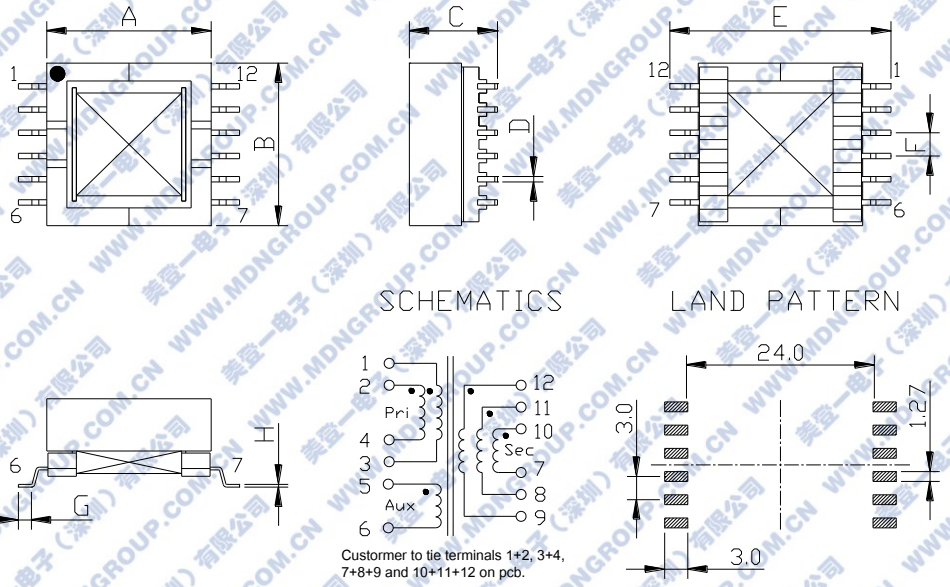

A±0.8	B max	C max	D±0.2	E max	F±0.2	G Ref	H Ref
21.0	23.0	12.5	0.70	29.0	3.0	2.0	0.35

SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	Pri-Sec VAC
750311607	14	0.6	9.5	0.040	0.070	0.010	3:1	2.5:1	1:1	1500

Notes: L&Lk is for pri winding, L test frequency 150KHz, 0.1V; Lk test frequency 150KHz, 0.05V.
Pri:30-75VDC,210KHz ; Aux: 10VDC ,20mA; Sec:12VDC , 2.5A.
The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 7+8+9 and 10+11+12.

FLYBACK TRANSFORMERS 反激变压器 TE20F-SERIES

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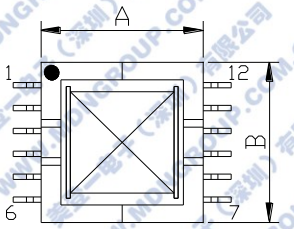
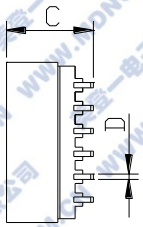
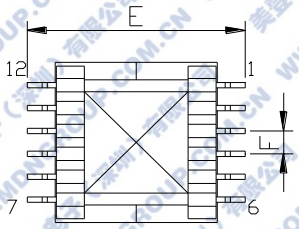
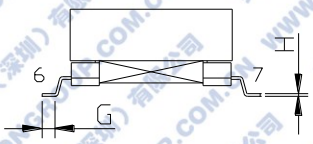
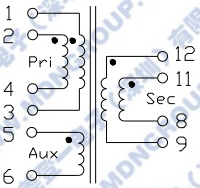






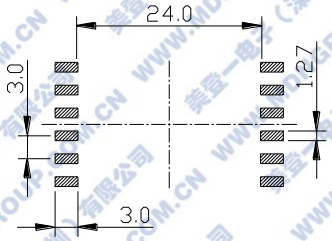


SCHEMATICS



Customer to tie terminals 1+2, 3+4, 8+9, and 11+12 on pcb.

LAND PATTERN



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P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	Pri-Sec VAC
750311600	12.0	0.40	11	0.030	0.040	0.012	3:1	2:1	1:1	1500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 250KHz, 0.1V.
Pri:30-75VDC,210KHz ; Aux: 10VDC ,20mA; Sec:15VDC , 2A.
The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 8+9 and 11+12.

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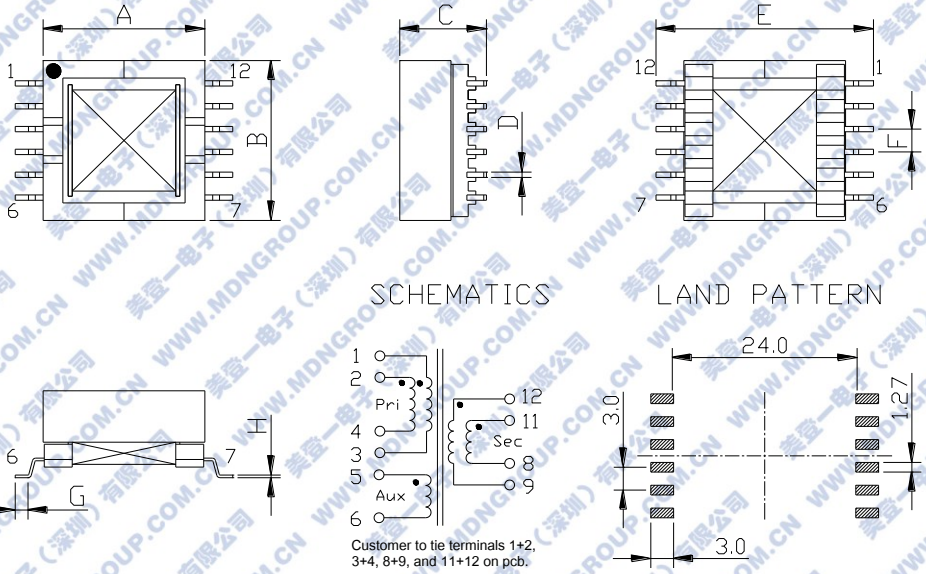

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SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	Pri-Sec VAC
750311608	12.0	1.0	9.0	0.030	0.055	0.020	3:1	1.5:1	1:1	1500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 250KHz, 0.1V.
Pri:30-75VDC,210KHz ; Aux: 10VDC ,20mA; Sec:24VDC , 1.3A.
The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 8+9 and 11+12.