

FLYBACK TRANSFORMERS 反激变压器

TE13P-SERIES

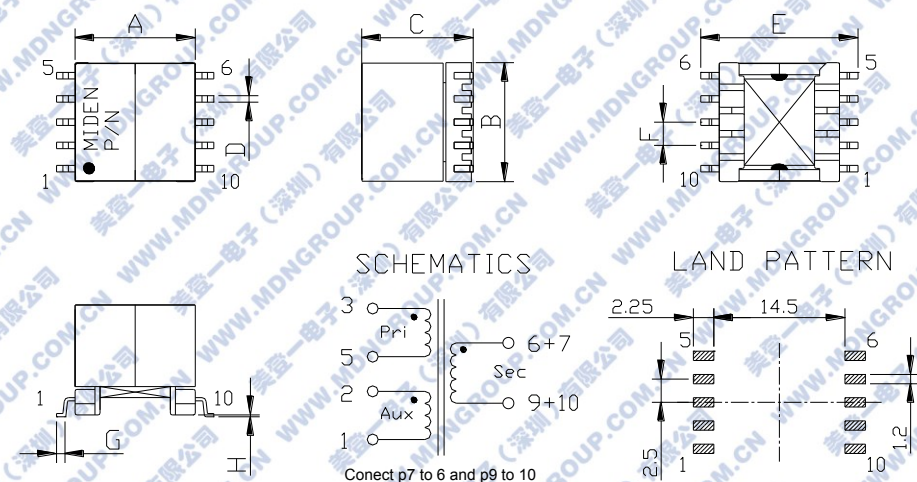
FEATURES

- 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.

APPLICATIONS

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

DIMENSIONS AND LAND PATTERNS(mm)



A±0.5	B max	C max	D±0.2	E max	F±0.2	G Ref	H Ref
13.0	13.5	12.7	0.7	17.8	2.5	1.0	0.2

SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio		Dielectric	
				Pri ±20%	Aux ±20%	Sec Max	Pri:Aux ±1%	Pri:Sec ±1%	Pri-Aux VAC	Pri-Sec VAC
750311625	9.0	0.5	8.0	0.043	0.130	0.006	1.78:1	4:1	500V	1500V

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 100KHz, 0.05V.

Operating temperature range:-40℃ to +125℃ including temperature rise.

Pri: 10-40VDC,100KHz ; Aux: 8VDC , 20mA; Sec: 3.3VDC , 4A.

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。

用 途

- 隔离电源设计。
- 传感器接口。
- 隔离电信转换器。
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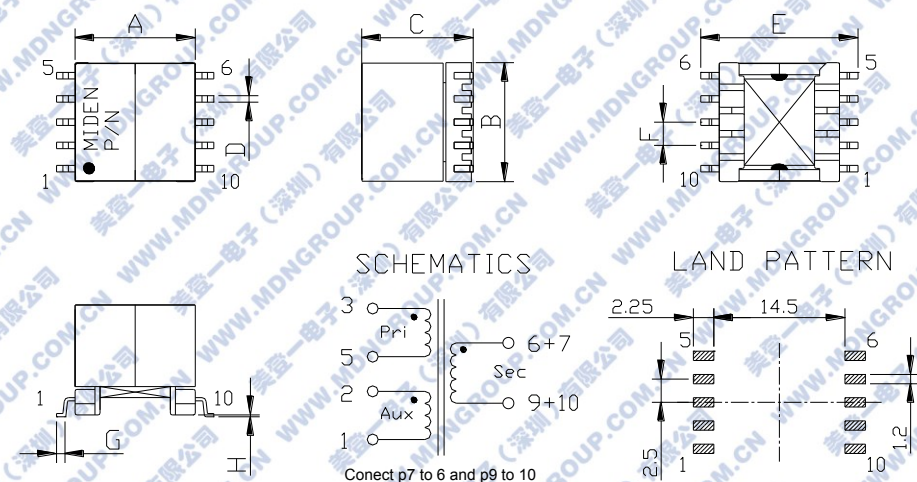
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				Pri ±20%	Aux ±20%	Sec ±20%	Pri:Aux ±1%	Pri:Sec ±1%	Pri-Aux VAC	Pri-Sec VAC
750311564	9.07	0.25	8.0	0.036	0.092	0.007	1.714:1	3:1	500	1500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 100KHz, 0.01V.

Operating temperature range:-40℃ to +125℃ including temperature rise.

Pri: 10-40VDC,100KHz; Aux: 8VDC , 20mA; Sec: 5VDC , 3A.

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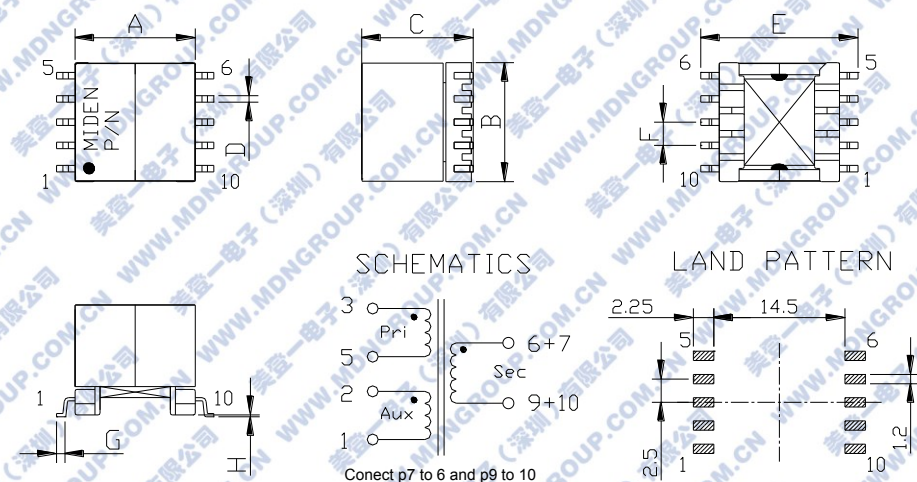
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				Pri ±20%	Aux ±20%	Sec ±20%	Pri:Aux ±1%	Pri:Sec ±1%	Pri-Aux VAC	Pri-Sec VAC
750311624	9.0	0.25	8.0	0.034	0.077	0.021	3:1	1.5:1	500	1500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 100KHz, 0.05V.

Operating temperature range:-40℃ to +125℃ including temperature rise.

Pri: 10-40VDC,100KHz ; Aux: 8VDC , 20mA; Sec: 15VDC , 1A.

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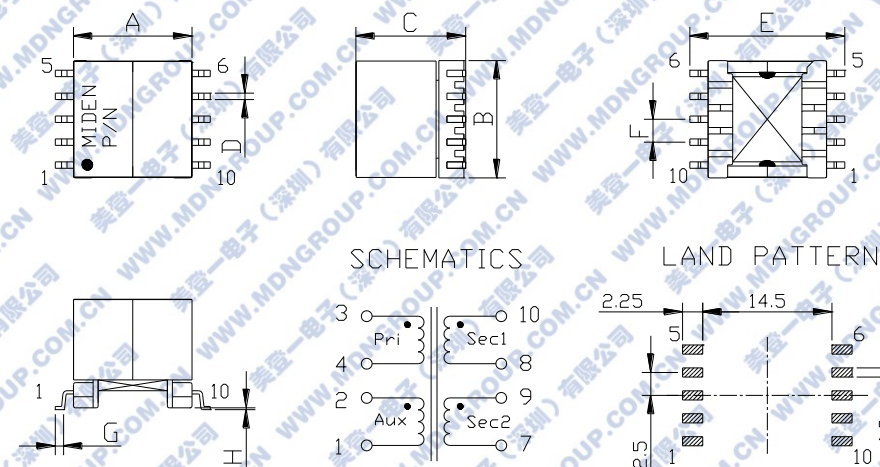
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				Pri ±20%	Aux ±20%	Sec ±20%	Pri:Aux ±1%	Pri:Sec ±1%	Pri-Aux VAC	Pri-Sec VAC
750311486	100	4.5	2.0	0.22	0.18	31	4.57:1	1:10	500	1500

Notes: L&Lk is for pri winding, L test frequency 50KHz, 0.1V; Lk test frequency 100KHz, 0.1V.

Operating temperature range:-40℃ to +125℃ including temperature rise.

Pri: 12VDC ,50KHz; Aux: 4VDC , 20mA; Sec: 200VDC , 2mA / - 200VDC , 2mA.

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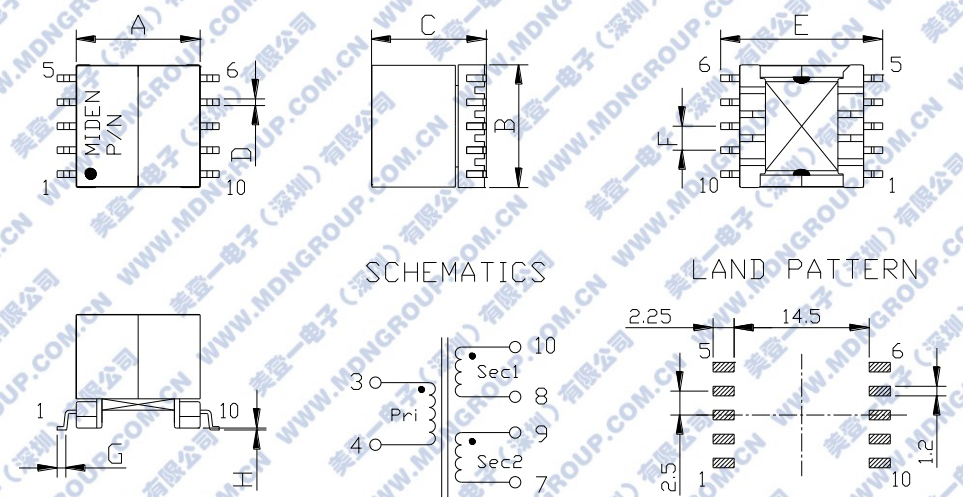
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				Pri ± 20%	Sec1 ± 20%	Sec2 ± 20%	Pri:Sec1 ± 1%	Pri:Sec2 ± 1%	
750311681	100	3.0	2.0	0.22	28.5	28.5	1:10	1:10	1500

Notes: L&Lk is for pri winding, L test frequency 50KHz, 0.1V; Lk test frequency 100KHz, 0.01V.

Operating temperature range:-40℃ to +125℃ including temperature rise.

Pri: 12VDC,50KHz ; Sec: 200VDC , 2mA / - 200VDC , 2mA..

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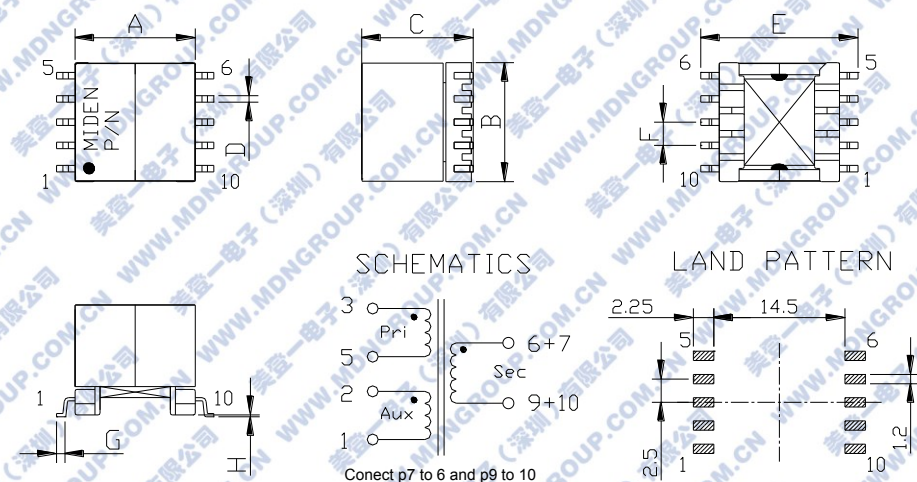
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				Pri ±20%	Aux ±20%	Sec ±20%	Pri:Aux ±1%	Pri:Sec ±1%	Pri-Aux VAC	Pri-Sec VAC
750311424	100	1.5	2.4	0.185	0.190	0.031	4.5:1	3:1	500	1500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 100KHz, 0.1V.

Operating temperature range:-40℃ to +125℃ including temperature rise.

Pri: 36VDC,100KHz ; Aux: 8VDC , 20mA; Sec: 12VDC , 1A.

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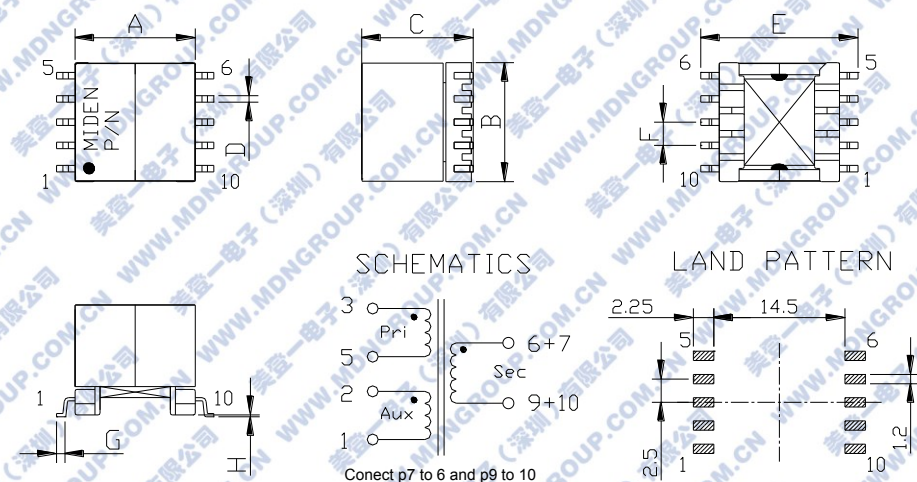
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				Pri ±20%	Aux ±20%	Sec ±20%	Pri:Aux ±1%	Pri:Sec ±1%	Pri-Aux VAC	Pri-Sec VAC
750311456	100	1.5	2.4	0.225	0.240	0.031	4.5:1	3:1	500	2500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 100KHz, 0.1V.

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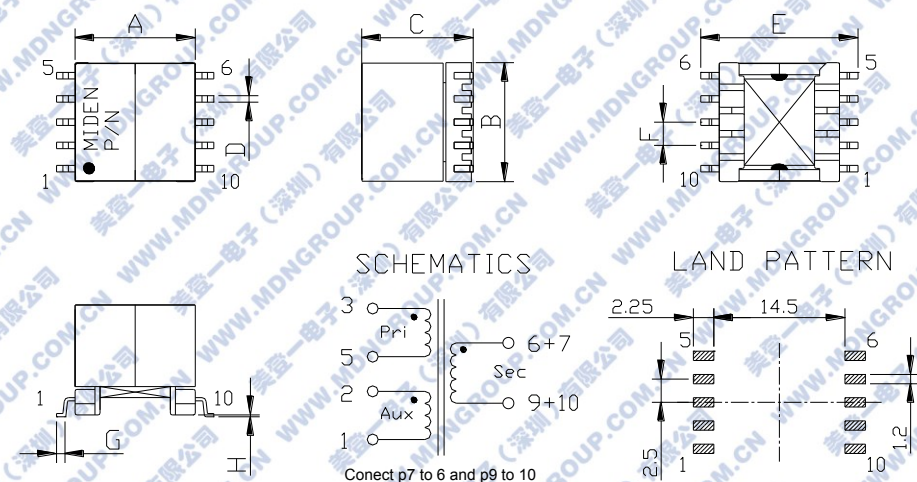
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750311458	15	0.3	5	0.035	0.131	0.006	1.2:1	3:1	500	2500

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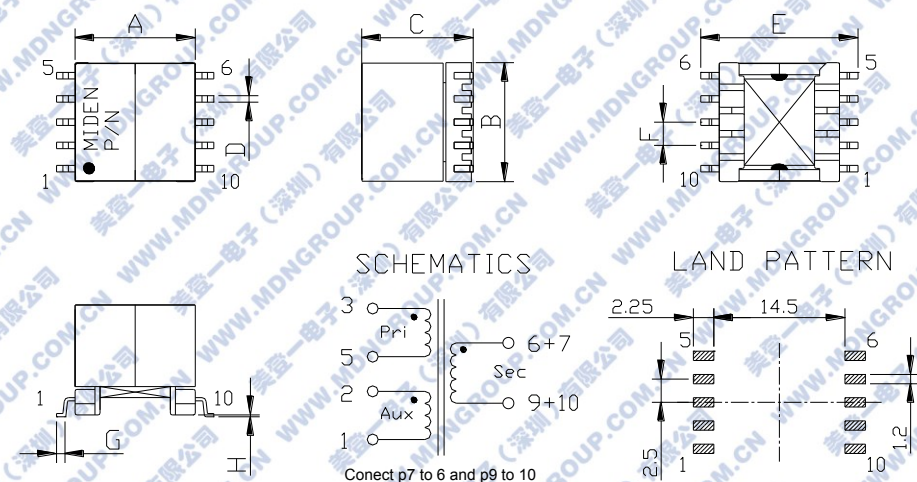
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				Pri ±20%	Aux ±20%	Sec ±20%	Pri:Aux ±1%	Pri:Sec ±1%	Pri-Aux VAC	Pri-Sec VAC
750311422	50	1.2	3.3	0.080	0.145	0.008	2.5:1	5:1	500	1500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 100KHz, 0.1V.

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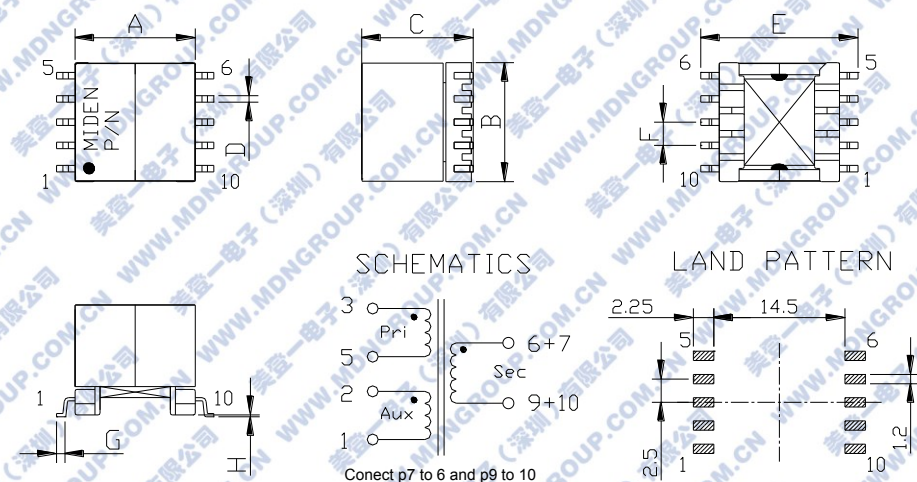
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750311423	50	1.2	3.85	0.09	0.205	0.012	2:1	4:1	500	1500

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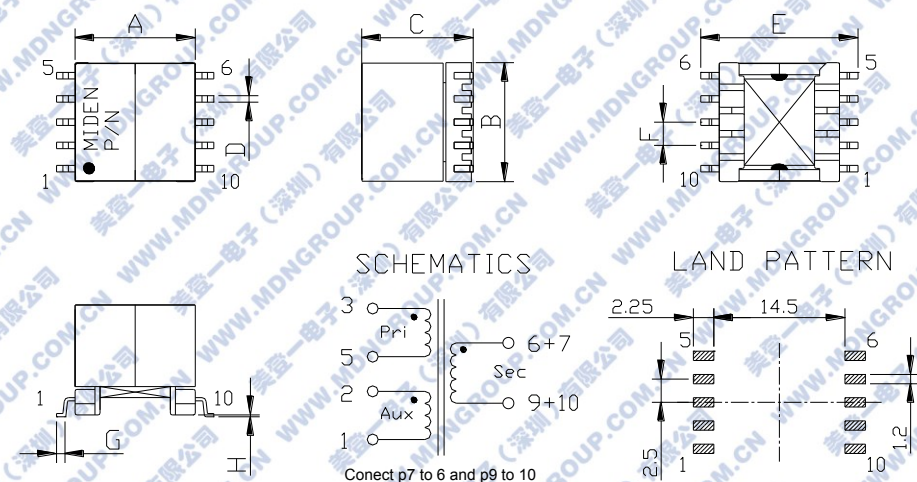
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750311457	50	1.2	3.70	0.115	0.270	0.012	2:1	4:1	500	2500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 100KHz, 0.1V.

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- 隔离电压高达 2.5 kV。

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。

FLYBACK TRANSFORMERS 反激变压器

TE13P-SERIES

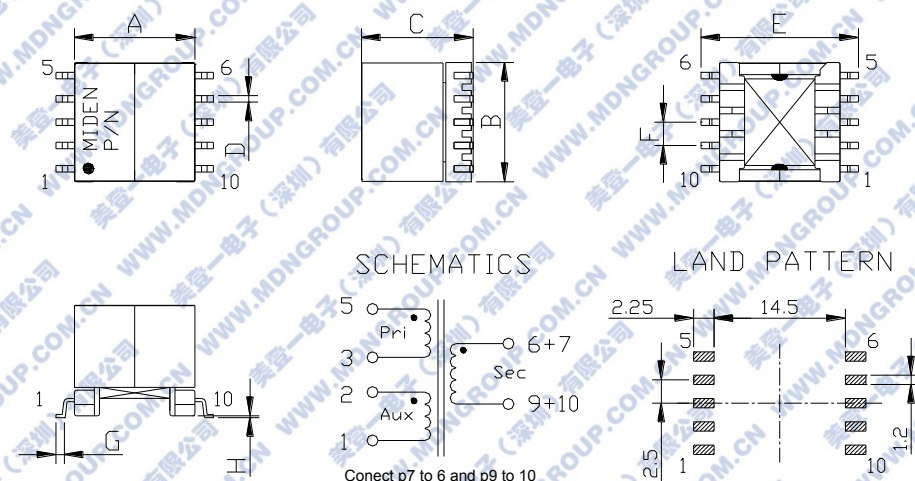
FEATURES

- 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.

APPLICATIONS

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

DIMENSIONS AND LAND PATTERNS(mm)



A±0.5	B max	C max	D±0.2	E max	F±0.2	G Ref	H Ref
13.0	13.5	12.7	0.7	17.8	2.5	1.0	0.2

SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio		Dielectric	
				Pri ±20%	Aux ±20%	Sec ±20%	Pri:Aux ±1%	Pri:Sec ±1%	Pri-Aux VAC	Pri-Sec VAC
750311688	50	1.2	3.1	0.08	0.140	0.008	2.5:1	5:1	500	1500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 100KHz, 0.1V.

Operating temperature range:-40℃ to +125℃ including temperature rise.

Pri: 36VDC,100KHz ; Aux: 10VDC , 20mA; Sec: 5.0VDC , 4A.

FLYBACK TRANSFORMERS 反激变压器

TE13P-SERIES

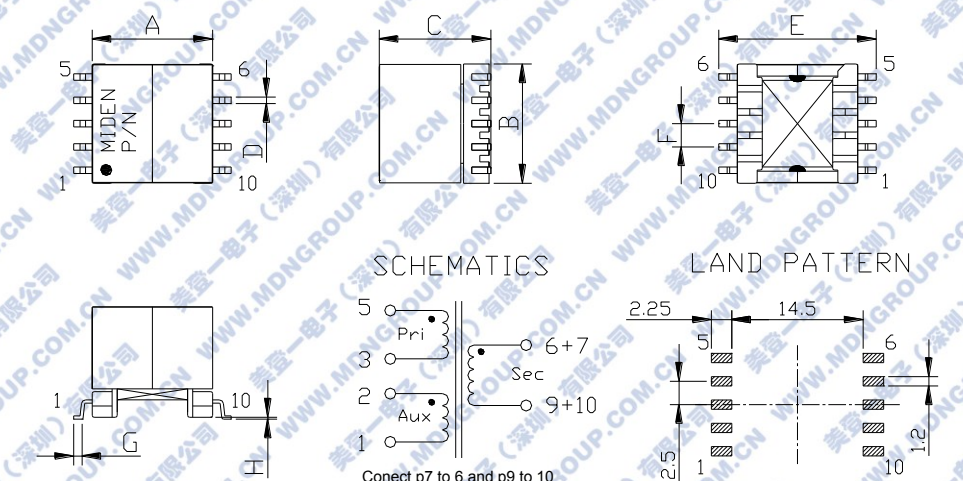
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750311689	50	1.2	3.70	0.115	0.270	0.012	2:1	4:1	500	2500

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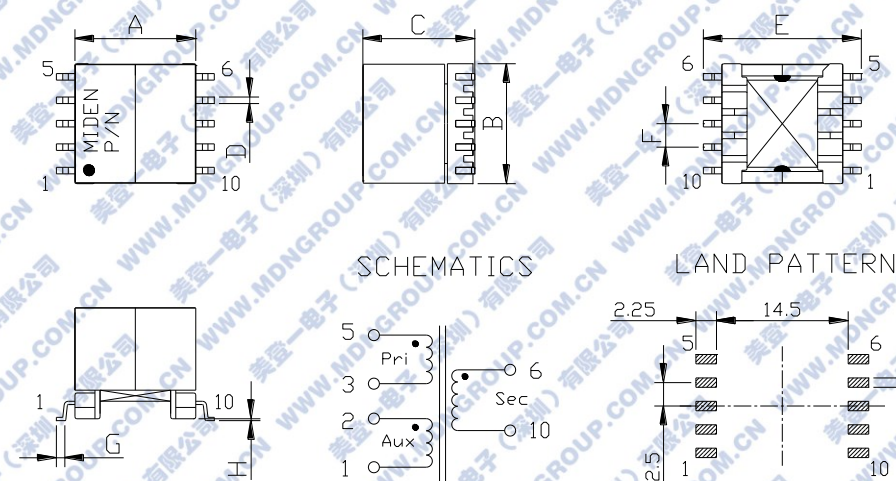
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750311439	37	0.75	2.8	0.089	0.096	0.028	1.82:1	2:1	500	1500

Notes: L&Lk is for pri winding, L test frequency 10KHz, 0.1V; Lk test frequency 100KHz, 0.01V.

Operating temperature range:-40℃ to +125℃ including temperature rise.

Pri: 37-57VDC,250KHz ; Aux: 12VDC , 30mA; Sec:12VDC , 2.1A.

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