

FLYBACK TRANSFORMERS 反激变压器

TE25F-SERIES

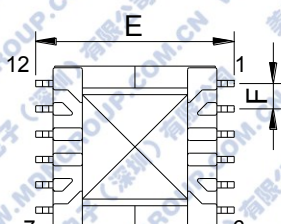
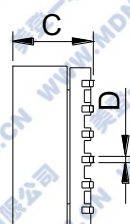
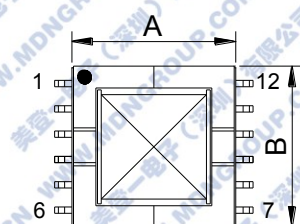
FEATURES

- 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

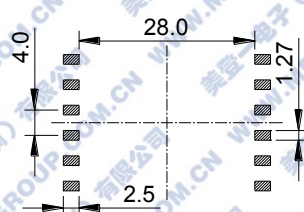
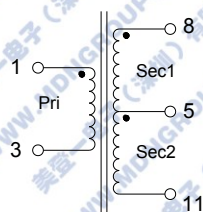
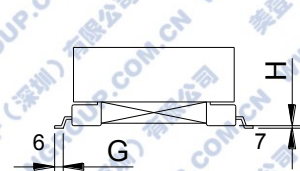
- Isolated power design.
- Sensor interfaces.
- Isolated telecom converters.
- Power over Ethernet.

DIMENSIONS AND LAND PATTERNS(mm)



SCHEMATICS

LAND PATTERN



A ± 0.8	B max	C max	D ± 0.2	E max	F ± 0.2	G Ref	H Ref
26.0	27.0	13.7	1.0	32.3	4.0	1.0	0.5

SPECIFICATION

P/N	L(1-3) (uH) $\pm 10\%$	Lk(1-3) (uH) Max	Isat (A) Max	DCR(Ω)		Turns ratio($\pm 3\%$)		Dielectric Pri-Sec VAC
				Pri(1-3) Max	Sec(8-11) Max	(1-3):(8-11)	(8-5):(5-11)	
750310988	14	0.2	>15	0.02-	0.52	1:4.42	1:1	1500

Notes:L&Lk is for pri winding,L test frequency 200KHz, 0.1V; Lk test frequency 200KHz, 0.1V.

Pri: 12VDC,200KHz ; Sec(8-11): 48VDC ,0.85A.

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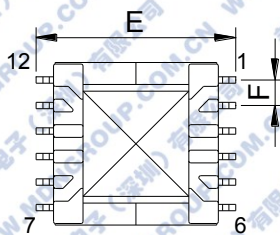
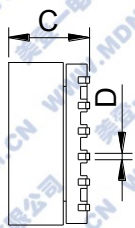
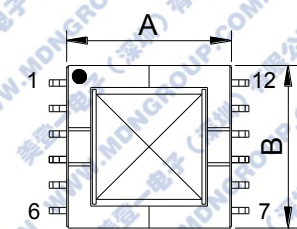
特 征

- 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

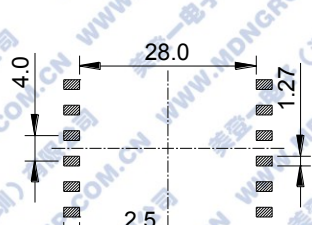
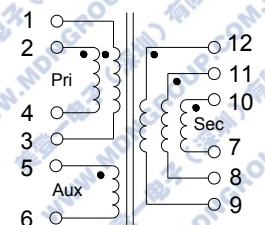
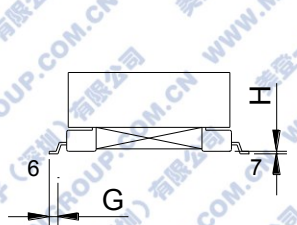
- 隔离电源设计。
- 传感器接口。
- 隔离电信转换器。
- 以太网供电。

DIMENSIONS AND LAND PATTERNS(mm)



SCHEMATICS

LAND PATTERN



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



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P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric Pri-Sec VAC
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	
750311783	20	0.225	16	0.024	0.058	0.017	3:1	1.5:1	1:1	1500

Notes:L&Lk is for pri winding, L test frequency 150KHz, 0.1V; Lk test frequency 100KHz, 0.01V.

Pri: 19-70VDC,200KHz ; Aux: 12VDC , 10mA; Sec: 24VDC , 2.5A.

The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 7+8+9 and 10+11+12.

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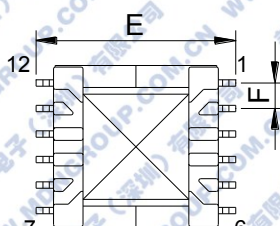
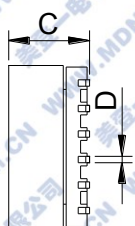
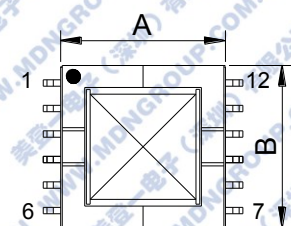
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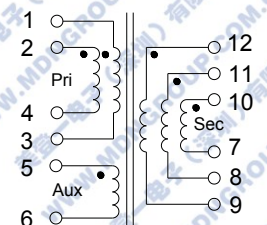
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DIMENSIONS AND LAND PATTERNS(mm)

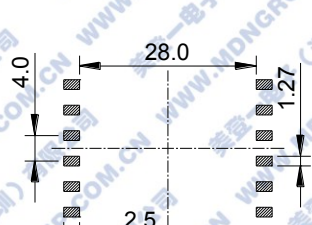


SCHEMATICS



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SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric Pri-Sec VAC
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	
750311589	6	0.4	18	0.020	0.050	0.006	1.5:1	3:1	1:1	1500

Notes:L&Lk is for pri winding, L test frequency 150KHz, 0.1V; Lk test frequency 100KHz, 0.05V.

Pri: 20-48VDC,150KHz ; Aux: 10VDC , 10mA; Sec: 5VDC , 9.0A.

The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 7+8+9 and 10+11+12.

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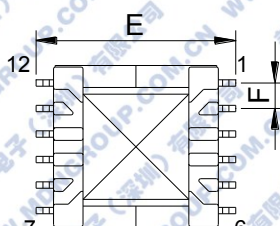
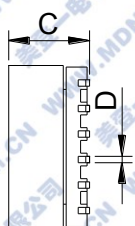
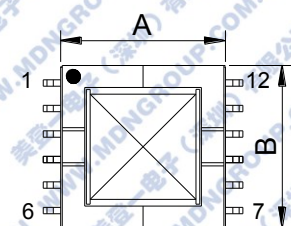
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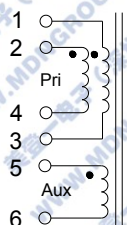
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DIMENSIONS AND LAND PATTERNS(mm)

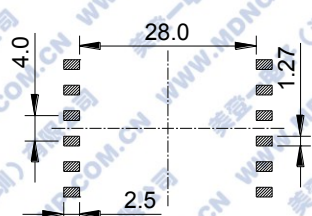


SCHEMATICS



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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-Sec VAC
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	
750311590	8.0	0.4	18	0.015	0.020	0.008	2:1	2:1	1:1	1500

Notes:L&Lk is for pri winding, L test frequency 150KHz, 0.1V; Lk test frequency 100KHz, 0.05V.

Pri: 20-48VDC,150KHz ; Aux: 10VDC , 10mA; Sec: 12VDC , 3.8A.

The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 7+8+9 and 10+11+12.

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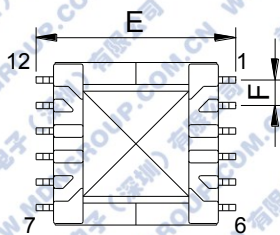
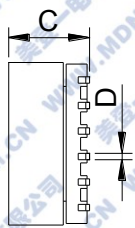
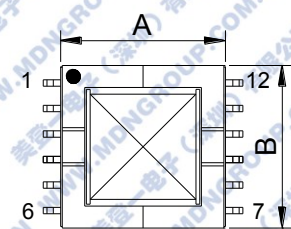
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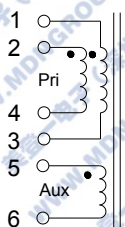
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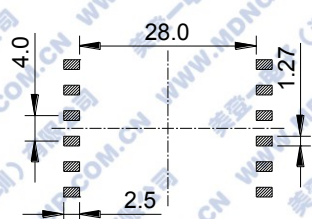


SCHEMATICS



Customer to tie terminals 1+2,
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LAND PATTERN



A±0.8	B max	C max	D±0.2	E max	F±0.2	G Ref	H Ref
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SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric Pri-Sec VAC
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	
750311591	8.0	0.4	20	0.015	0.018	0.012	2.25:1	1.5:1	1:1	1500

Notes:L&Lk is for pri winding, L test frequency 150KHz, 0.1V; Lk test frequency 100KHz, 0.1V.

Pri: 20-48VDC,150KHz ; Aux: 10VDC , 10mA; Sec: 15VDC , 3.0A.

The resistance test condition: Pri: tie 1+2 and 3+4; Sec: tie 7+8+9 and 10+11+12.

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TE25F-SERIES

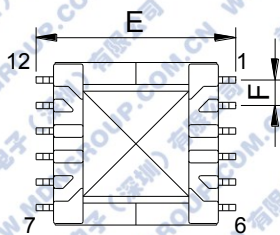
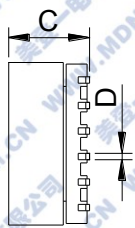
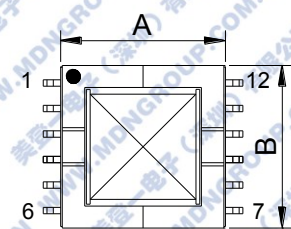
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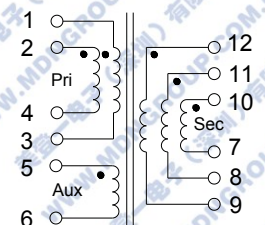
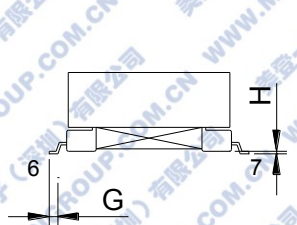
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DIMENSIONS AND LAND PATTERNS(mm)

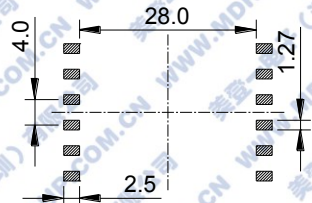


SCHEMATICS

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P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric Pri-Sec VAC
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	
750311592	8	0.4	18	0.015	0.020	0.020	2.25:1	1:1	1:1	1500

Notes:L&Lk is for pri winding, L test frequency 150KHz, 0.1V; Lk test frequency 100KHz, 0.05V.

Pri: 20-48VDC,150KHz ; Aux: 10VDC , 10mA; Sec: 24VDC ,1.9A.

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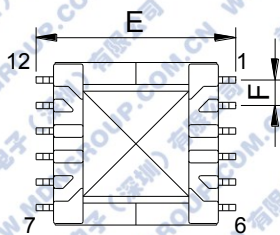
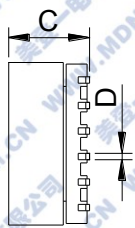
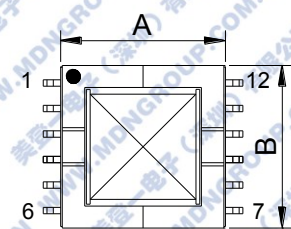
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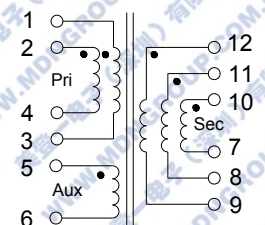
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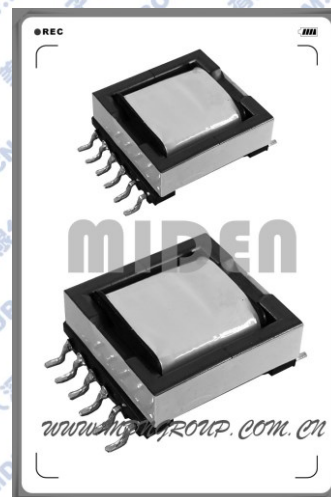
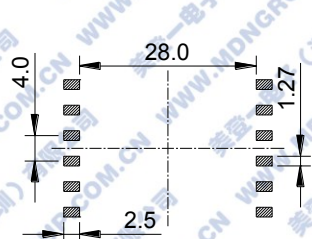


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				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	
750311593	15	0.4	18	0.032	0.038	0.008	1.75:1	3.5:1	1:1	1500

Notes:L&Lk is for pri winding, L test frequency 150KHz, 0.1V; Lk test frequency 100KHz, 0.05V.

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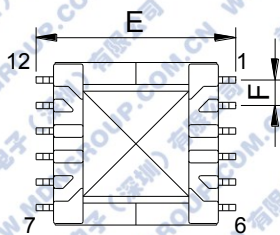
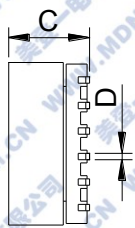
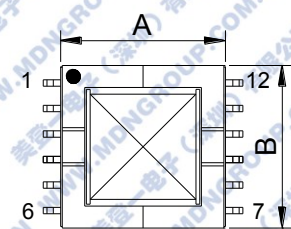
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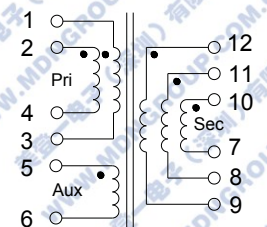
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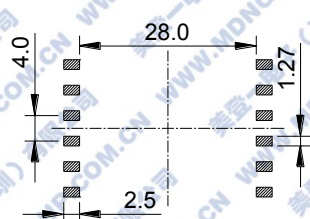


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				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	
750311594	15	0.55	18	0.035	0.030	0.015	2.8:1	2.33:1	1:1	1500

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- Isolated telecom converters.
- Power over Ethernet.

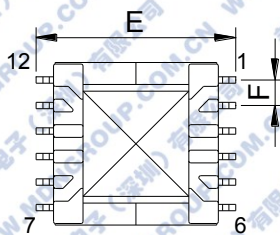
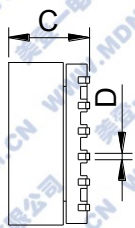
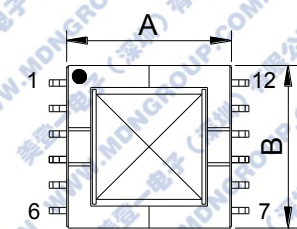
特 征

- 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

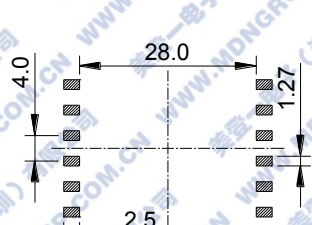
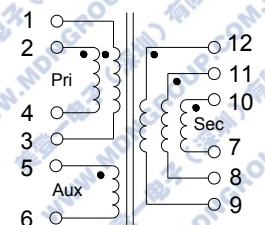
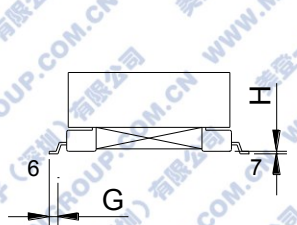
- 隔离电源设计。
- 传感器接口。
- 隔离电信转换器。
- 以太网供电。

DIMENSIONS AND LAND PATTERNS(mm)



SCHEMATICS

LAND PATTERN



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



A±0.8	B max	C max	D±0.2	E max	F±0.2	G Ref	H Ref
26.0	27.0	13.7	1.0	32.3	4.0	1.0	0.5

SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric Pri-Sec VAC
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	
750311595	12	0.4	16	0.015	0.018	0.012	2.50:1	2:1	1:1	1500

Notes:L&Lk is for pri winding, L test frequency 150KHz, 0.1V; Lk test frequency 100KHz, 0.01V.

Pri: 30-75VDC,150KHz ; Aux: 10VDC , 10mA; Sec: 15VDC , 3.0A.

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

TE25F-SERIES

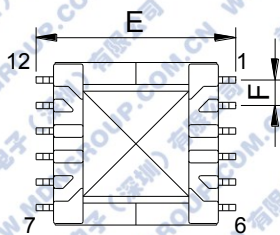
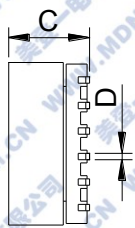
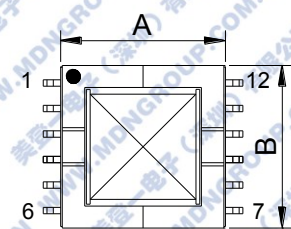
FEATURES

- 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.

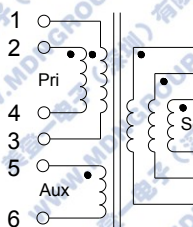
APPLICATIONS

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

DIMENSIONS AND LAND PATTERNS(mm)

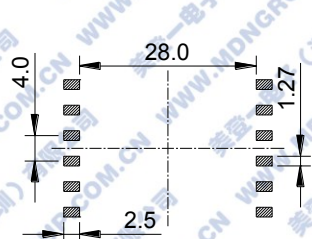


SCHEMATICS



Customer to tie terminals 1+2,
3+4, 7+8+9, 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
26.0	27.0	13.7	1.0	32.3	4.0	1.0	0.5

SPECIFICATION

P/N	L (uH) ±10%	Lk (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(±3%)			Dielectric Pri-Sec VAC
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri:Pri Sec:Sec	
750311596	12	0.4	18	0.030	0.025	0.030	3:1	1.5:1	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,150KHz ; Aux: 10VDC , 10mA; Sec: 24VDC , 1.9A.

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

TE25F-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.

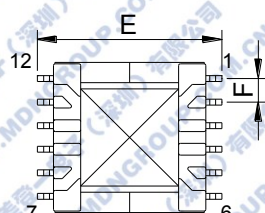
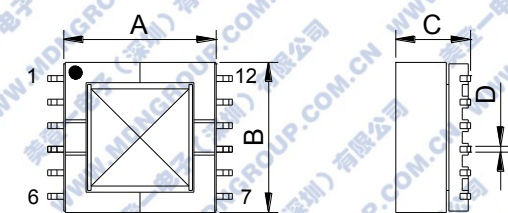
特 征

- 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。

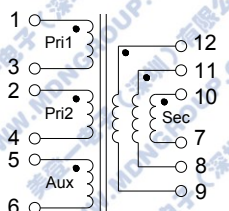
用 途

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

DIMENSIONS AND LAND PATTERNS(mm)

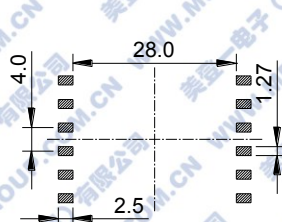


SCHEMATICS



Customer to tie terminals 2+3,
7+8+9, 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
26.0	27.0	13.7	1.0	32.3	4.0	1.0	0.5

SPECIFICATION

P/N	L(1-4) (uH) ± 10%	Lk(1-4) (uH) Max	Isat (A) Max	DCR(Ω)			Turns ratio(± 3%)			Dielectric
				Pri Max	Aux Max	Sec Max	Pri:Aux	Pri:Sec	Pri1:Pri2 Sec:Sec	
750311771	14	10	2.5	0.495	0.185	0.016	6:1	6:1	1:1	2000

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

Pri: 100-400VDC, 60-400KHz ; Aux: 15VDC , 20mA; Sec: 15VDC , 3.0A.

The resistance test condition: Pri(1-4): tie 2+3 ; Sec(12-9): tie 7+8+9 and 10+11+12.

FLYBACK TRANSFORMERS 反激变压器

TE25F-SERIES

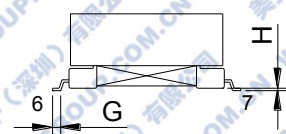
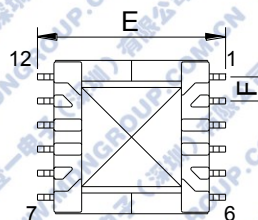
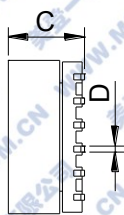
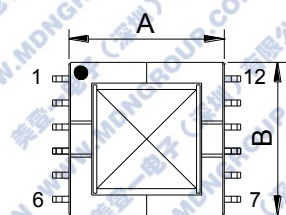
FEATURES

- 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.

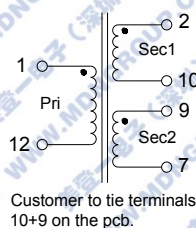
APPLICATIONS

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

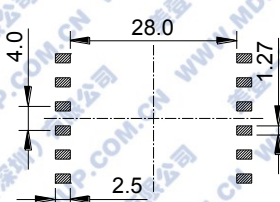
DIMENSIONS AND LAND PATTERNS(mm)



SCHEMATICS



LAND PATTERN



A ± 0.8	B max	C max	D ± 0.2	E max	F ± 0.2	G Ref	H Ref
26.0	27.0	13.7	1.0	32.3	4.0	1.0	0.5

SPECIFICATION

P/N	L(1-12) (μ H) $\pm 10\%$	L(2-7) (μ H) Max	Lk (μ H) Max	Isat (A) Max	DCR(Ω)		Turns ratio($\pm 3\%$) (1-12):(2-10):(9-7)	Dielectric Pri-Sec VAC
					Pri(1-12) Max	Sec(2-7) Max		
750311889	37	928	0.16	2.95	0.038	0.175	1:2.5:2.5	500

Notes: L test frequency 100KHz, 0.1V; Lk test frequency 100KHz, 0.1V.

Pri: 28VDC, 100-300KHz ; Sec(2-7): 250VDC, 0.1A (Tie 10+9).

The resistance test condition: Sec(2-7): tie 10+9.