

NO-OPTO FLYBACK TRANSFORMERS 反激变压器

NOP 系列

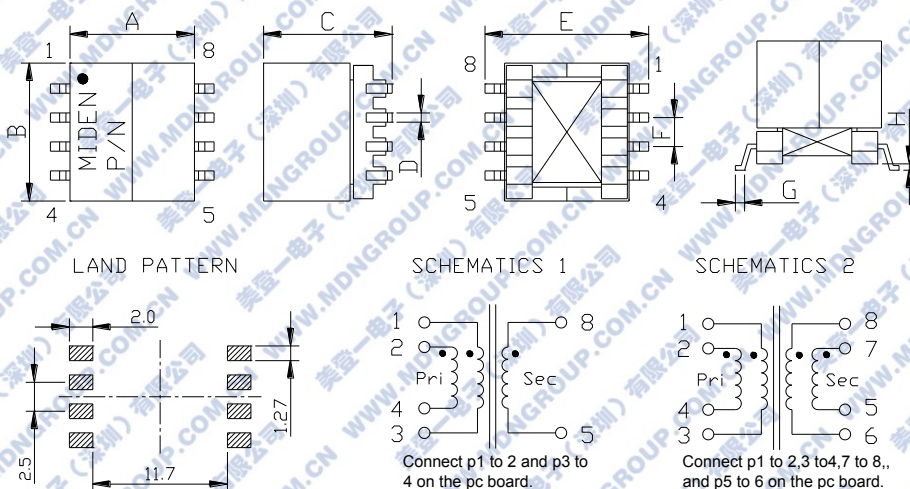
FEATURES

- Small size, Low leakage inductance, Low DCR, High efficiency, Low cost.
- The "no-opto" flyback topology enables primary-side regulation by deriving the isolated output voltage directly from the primary-side flyback waveform. This provides an isolated flyback without the need for an extra transformer winding or opto coupler to provide feedback across the isolation barrier from secondary side to primary side. Without the feedback winding, transformers may be designed for optimal coupling, best efficiency, smallest size and lowest cost.

APPLICATIONS

- Compact Transformers for No-opto Flyback Topology.

DIMENSIONS AND LAND PATTERNS(mm)



A ±0.5	B max	C max	D ±0.2
10.5	13.5	11.8	0.7
E max	F ±0.2	G Ref	H Ref
15.8	2.5	1.0	0.2

备注: SCHMATIC1 FOR YA9165 / 9166 / 9167 / 9170; SCHMATIC2 FOR YA9168 / 9169.

SPECIFICATION

P/N	L (uH) ± 10%	Lk (uH) Max	DCR(Ω) Max		Turns ratio Pri:Sec	Power (W)	Isat (A)	Input	Output
			Pri	Sec1					
YA9165	4	0.15	0.0156	0.0144	1:0.70	12	13.0	8-28V	5V, 2.40A
YA9166	4	0.12	0.0156	0.0598	1:1.60	12	13.0	8-28V	12V, 1A
YA9167	4	0.12	0.0156	0.1900	1:3.14	12	13.0	8-28V	24V, 0.50A
YA9168	20	0.40	0.0360	0.0120	1:0.31	12	4.7	18-60V	5V, 2.40A
YA9169	20	0.28	0.0380	0.0540	1:0.71	12	4.7	18-60V	12V, 1A
YA9170	20	0.28	0.0360	0.1950	1:1.39	12	4.7	18-60V	24V, 0.50A