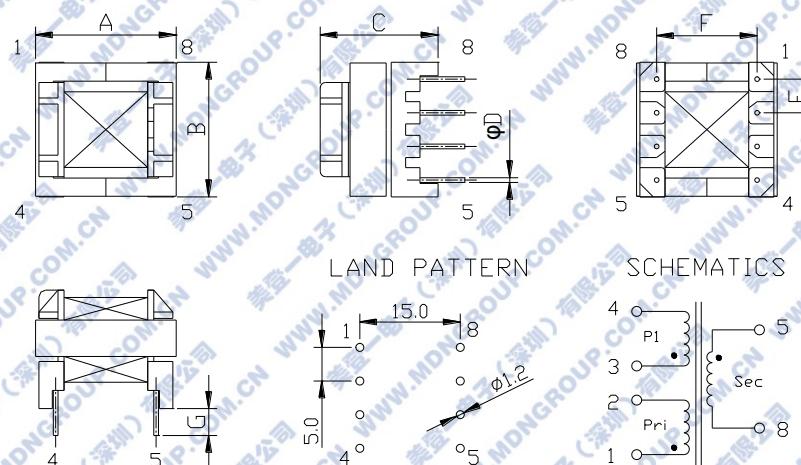


GATE DRIVE TRANSFORMERS 棚极驱动变压器**HA3950****FEATURES**

- Gate drive transformers are used to deliver the controlling gate-voltage pulses between the drain and source of a MOSFET, while providing isolation between the MOSFET and the controlling drive circuit. Gate-driver circuits need an isolated (floating) bias supply to maintain the required turn-on bias when the FET source rises to the input voltage. A gate drive transformer isolates the controlling gate-drive circuit from the switch node when driving the MOSFET gate and may also scale the output voltage via an appropriate primary-to-secondary turns ratio.

APPLICATIONS

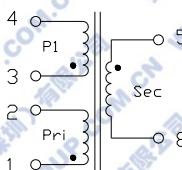
- Specified by Texas Instruments in reference design Sluu341 for 300w isolated pfc power supply.

DIMENSIONS AND LAND PATTERNS(mm)**特征**

- 棚极驱动变压器用于在 MOSFET 的漏极和源极之间传递控制棚极电压脉冲，同时在 MOSFET 和控制驱动电路之间提供隔离。棚极驱动电路需要一个隔离（浮动）偏置电源，以在 FET 源上升到输入电压时保持所需的导通偏置。棚极驱动变压器在驱动 MOSFET 棚极时将控制棚极驱动电路与开关节点隔离，并且还可以通过适当的一次到二次匝数比来缩放输出电压。

用途

- 用于半导体功率因数校正和反激控制器的设计。

**SCHEMATICS**

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A±0.8	B max	C max	D±0.1	E±0.2	F±0.2	G Ref
21.2	21.2	17.3	0.7	5.0	15.0	4.0

SPECIFICATION

P/N	L (mH) ±10%	Lk (uH) Max	DCR(Ω)Max			Turns ratio	Ipk (A)	Output	
			Pri	Sec	P1			Pri:Sec:P1	Sec
HA3950	2.3	16.5	0.86	0.109	0.08	1:0.16:0.11	0.3	15V,0.33A	10V,20mA

Notes:1.L&Lk test frequency 100KHz/0.1V;Peak primary current draw at minimum input voltage.

2.HA3950 flyback transformer for 5w bias supply operates with an input voltage range of 100-450V.