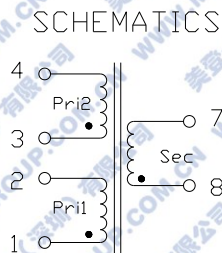
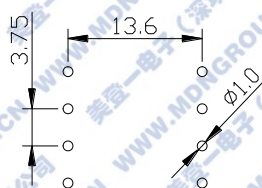
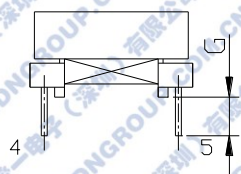
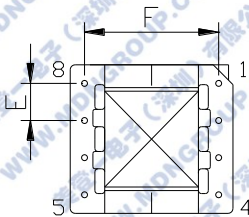
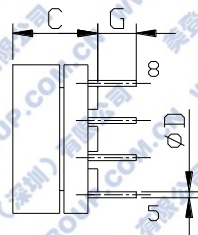
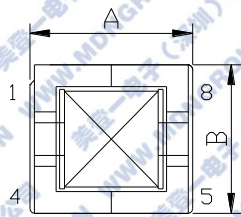


GATE DRIVE TRANSFORMERS 栅极驱动变压器**HA3858****FEATURES**

- 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)

A max	B max	C max	D ± 0.1	E ± 0.2	F ± 0.2	G Ref
17.2	16.5	9.0	0.6	3.75	13.6	4.0

SPECIFICATION

P/N	L (uH) ± 25%	Lk (uH)Max		DCR(Ω)Max			Turns ratio Pri1: Pri2: Sec	Volt-time Product (V- μ sec)	Capacitance (PF) Max	
		Pri1	Pri2	Pri1	Pri2	Sec			Pri	Sec
HA3858	460	1.87	2.06	0.38	0.474	0.424	1:1:1	150	8.48	28.66

Notes: L & Lk test frequency 200KHz/0.4V; Peak primary current draw at minimum input voltage.

特 征

- 栅极驱动变压器用于在 MOSFET 的漏极和源极之间传递控制栅极电压脉冲，同时在 MOSFET 和控制驱动电路之间提供隔离。栅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。栅极驱动变压器在驱动 MOSFET 栅极时将控制栅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。