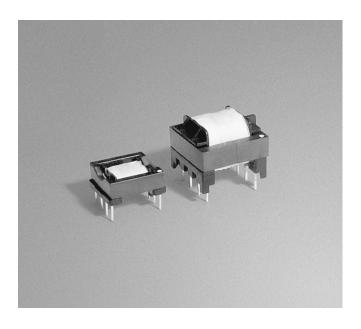


Magnetics for 300 W Power Supply with PFC



- Specified by Texas Instruments in Reference Design SLUU341 for 300 Watt Isolated PFC Power Supply
- HA3950-AL, Flyback transformer (T201) for 5 W bias supply operates with an input voltage range of 100 – 450 V.
- HA3858-AL, Gate drive transformer (T301)

Core material Ferrite

Terminations RoHS compliant tin-silver over tin over copper. Other terminations available at additional cost.

Weight HA3950-AL: 13.5 g; HA3858-AL: 4.1 g

Ambient temperature -40°C to +85°C

Storage temperature Component: -40°C to +85°C.

Tray packaging: -40°C to +80°C

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}$ C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

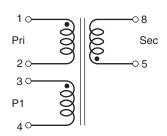
Packaging 100 per tray

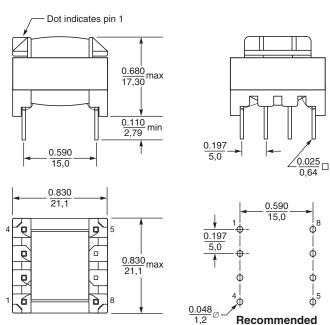
PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

HA3950-AL Flyback Transformer

Part number	Inductance at 0 A ¹ ±10% (mH)	Inductance at Ipk ² (mH)	DCR max (Ohms)	Leakage inductance max (µH) ³	Turns ratio Pri:Sec:P1	Ipk ² (A)	
HA3950-AL	2.3	1.61	0.860 (pri)	16.5	1:0.16:0.11	0.3	1
			0.109 (sec)				

- 1. Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/ HP 4263B impedance analyzer or equivalent.
- 2. Peak primary current drawn at minimum input voltage.
- 3. Leakage inductance is for the primary and is measured with the secondary shorted.
- 4. Output of the P1 winding is 10 V, 20 mA.
- Isolation: 3000 Vrms, one minute primary to secondary; 500 Vrms, one minute windings to core
- 6. Electrical specifications at 25°C.







US +1-847-639-6400 sales@coilcraft.com
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Dimensions are in

Document 746-1 Revised 07/23/09

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PC Board Layout

Output⁴ 15 V, 0.33 A

risk applications without prior Coilcraft approval Specification subject to change without notice Please check web site for latest information



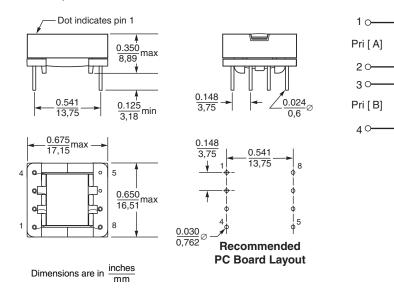
Magnetics for 300 W PFC Power Supply

HA3858-AL Gate Drive Transformer

Part number	Turns ratio	Primary inductance¹ ±25% (µH)	Leakage inductance ² max (µH)	DCR max (Ohms)	Volt-time product (V-µsec)	SRF typ³ (MHz)	Capacitance max (pF)
HA3858-AL	1:1:1	460	1.87 (1 – 2) 2.06 (3 – 4)	0.380 (Pri [A]) 0.472 ((Pri [B]) 0.424 (sec)	150	1.15	8.48 (pri) 28.66 (sec)

⊙8 Sec

- 1. Inductance is for each winding, measured at 200 kHz, 0.4 Vrms, 0 Adc.
- 2. Leakage inductance is for each primary, measured at 200 kHz, 0.4 Vrms with secondary pins shorted.
- 3. SRF measured with coils connected in series using an Agilent/HP 4192 or equivalent.
- 4. Operating temperature range -40°C to +85°C.
- 5. Isolation: 3000 Vrms, one minute primary to secondary; 500 Vrms, one minute windings to core
- 6. Electrical specifications at 25°C.





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