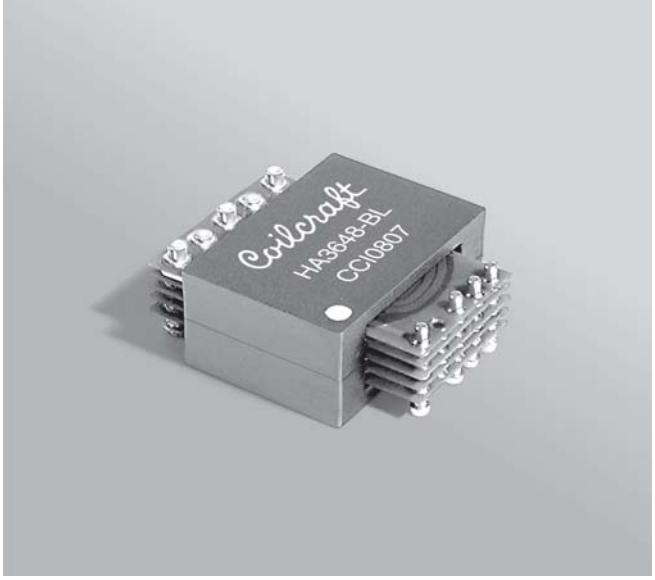
NEW!

RoHS COMPLIANT

Planar Transformer

For National Semiconductor LM5037 PWM Controller



- Developed for NSC LM5037 Dual-Mode PWM Controller
- Designed as half bridge in forward topology
- Auxiliary winding provides 10 V to the chipset
- Input voltage range: 36 – 78 V

Core material Ferrite

Terminations RoHS matte tin over nickel over brass. Other terminations available at additional cost.

Weight 11.8 g

Ambient temperature –40°C to +85°C

Storage temperature Component: –40°C to +85°C. Packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°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 200 per 13″reel Plastic tape: 44 mm wide, 0.37 mm thick, 32 mm pocket spacing, 9.35 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part number[1]	Output power (W)	Output voltage nom (V)	Output current (Adc)	Primary inductance[2] min (µH)	Leakage inductance[3] max (µH)	DCR max[4] (mOhms)	Turns ratio pri : sec1 : sec2 : aux	Pri/sec Isolation (Vdc)
HA3648-BL_	50	5	10	30.0	0.040	pri: 6.0 sec: 3.2 aux: 160	2 : 1 : 1 : 2	1500

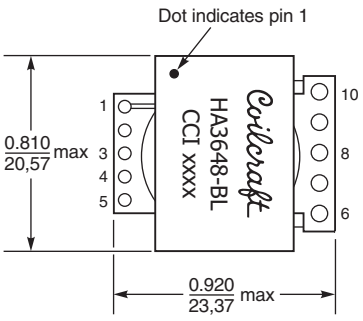
1. When ordering, please specify a **packaging** code:

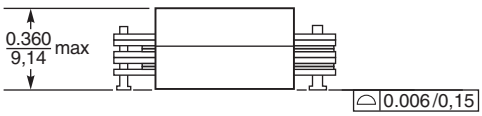
HA3648-BL D

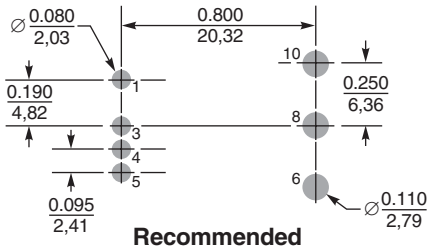
Packaging: D = 13″ machine ready reel. EIA-481 embossed plastic tape (200 per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

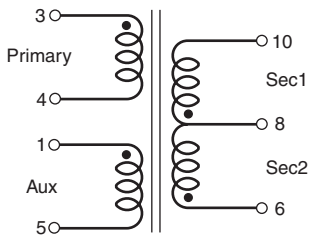
2. Inductance measured on an Agilent/HP 4284 between pins 3 and 4 at 250 kHz, 0.1 Vrms, 0 Adc.
3. Leakage inductance measured between pins 3 and 4 at 250 kHz, 0.1 Vrms, 0 Adc with pins 6, 8 and 10 shorted.
4. DCR for the secondary is from pin 6 to pin 10.
5. Electrical specifications at 25°C.







Recommended Land Pattern



Coilcraft®

Specifications subject to change without notice.
Please check our website for latest information.

1102 Silver Lake Road Cary, Illinois 60013 **Phone** 847/639-6400 **Fax** 847/639-1469
E-mail info@coilcraft.com **Web** http://www.coilcraft.com