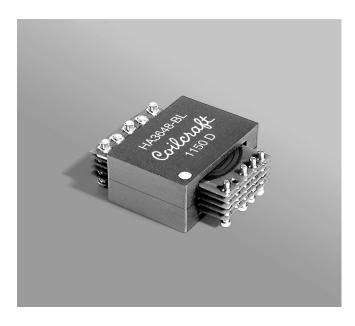


## Planar Transformer For National Semiconductor LM5037 PWM Controller



- 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.

Tape and reel 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

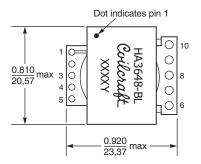
PCB washing Only pure water or alcohol recommended

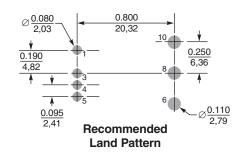
Part number¹	Output power (W)	Output voltage nom (V)	Output current (Adc)	Primary inductance <sup>2</sup> min (µH)	Leakage inductance <sup>3</sup> max (µH)	DCR max <sup>4</sup> (mOhms)	Turns ratio pri:sec1:sec2:aux	Pri/sec Isolation (Vdc)
HA3648-BL_	50	5	10	30.0	0.040	pri: 6.0	2:1:1:2	1500
						sec: 4.0		

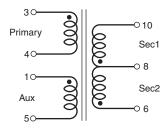
1. When ordering, please specify a packaging code:

## HA3648-BLD

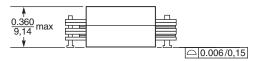
- **Packaging: D** = 13" machine ready reel. EIA-481 embossed plastic tape (200 per full reel).
  - B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.
- 2. Inductance measured on an Agilent/HP 4284 between pins 3 and 4 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.







Parts manufactured prior to December 2011 may be marked differently.



Dimensions are in



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