Planar Magnetics For Texas Instruments UCC3580

This planar transformer and planar inductor pair is designed specifically for the Texas Instruments UCC3580 family of PWM controllers.

The B0392-A transformer is engineered for use in single switch, forward topologies operating at 300 kHz. It is ideal for use in high-current telecom power supply applications that require high efficiency in a low-profile package.

The main winding of the B0430-A inductor serves as an output choke, while the auxiliary winding controls input current to the PWM.

Request free evaluation samples by contacting Coilcraft or visiting **www.coilcraft.com.**

Transformer

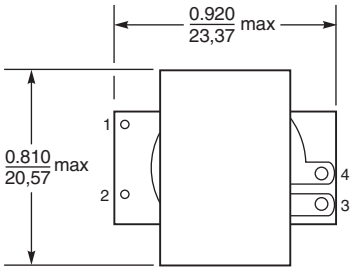
Part number[1]	Output power (W)	Output voltage (V)	Output current (A rms)	Primary inductance[2] min (µH)	Leakage inductance[3] max (µH)	DCR max (mOhms)	Pri/sec isolation (Vdc)
B0392-AL_	100	3.3	30.0	65.0	0.22	Primary: 13.5 Secondary: 0.4	1500

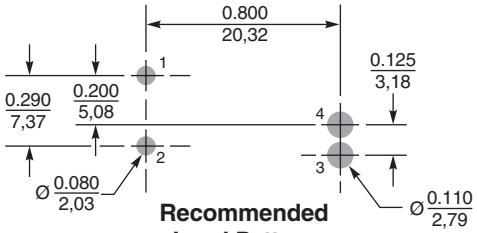
1. When ordering, please specify **packaging** code:

B0392-AL

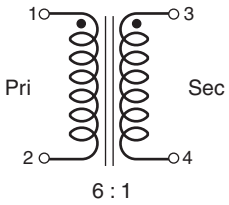
Packaging: **D** = 13″ machine ready reel. EIA-481 embossed plastic tape (200 parts per full reel).
B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

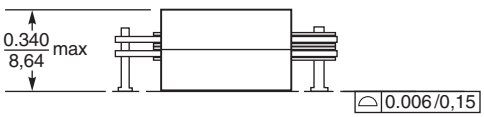
2. Inductance measured on an Agilent/HP 4284 between pins 1 and 2 at 250 kHz, 0.1 Vrms, 0 Adc.
3. Leakage inductance measured between pins 1 and 2 at 100 kHz, 0.1 Vrms, 0 Adc with secondary pins shorted.
4. Storage and ambient operating temperature range: –40°C to +85°C.
5. Electrical specifications at 25°C.





Recommended Land Pattern





Weight: 11.1 g
Terminations: Matte-tin over nickel over brass
Tape and reel: 200/13″ reel 44 mm tape width

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

Planar Magnetics for Texas Instruments UCC3580

Output Inductor

Part number[1]	Inductance[2] @ 0 Adc (µH)	I rated Adc	DCR max (mOhms)	Isolation[3] (Vdc)	Isat[4] (A)	Irms[5] (A)
B0434-AL_	2.0 ±10%	30	Main: 1.9 Aux: 1450.0	1100	38	36

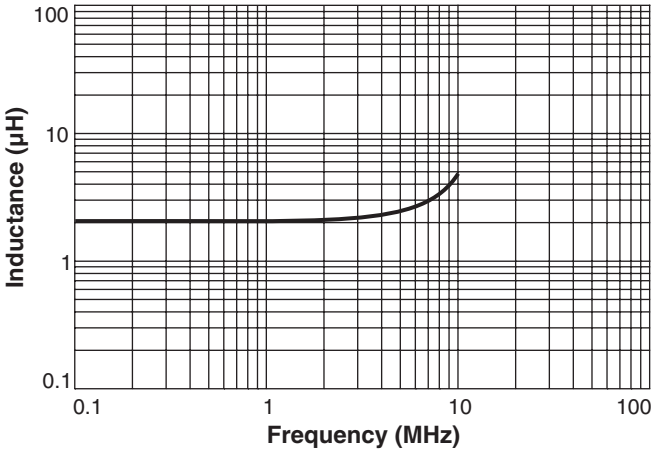
1. When ordering, please specify **packaging** code:

B0434-AL D

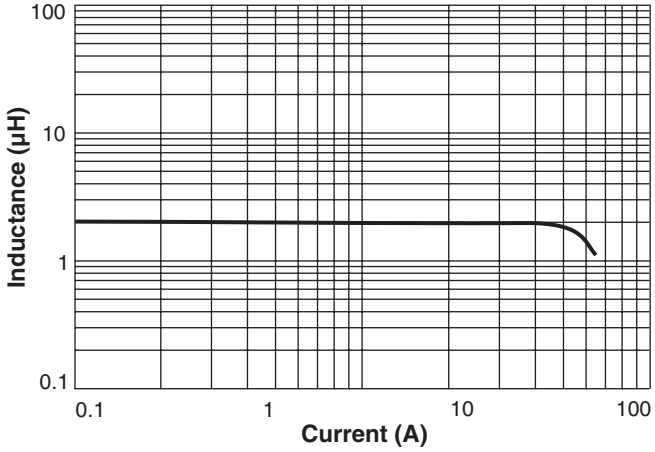
Packaging: **D** = 13″ machine ready reel. EIA-481 embossed plastic tape (200 parts per full reel).
B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added ($25 charge), use code letter D instead.

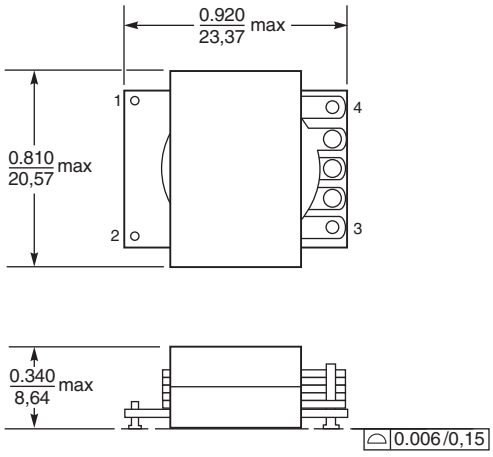
2. Inductance measured on an Agilent/HP 4284 between pins 3 and 4 at 10 kHz, 0.1 Vrms.
3. Isolation measured from pin 1 to pin 3.
4. DC current at which inductance drops 10% (typ) from its value without current.
5. Average current for a 40°C rise above 25°C ambient.
6. Storage and ambient operating temperature range: –40°C to +85°C.
7. Electrical specifications at 25°C.

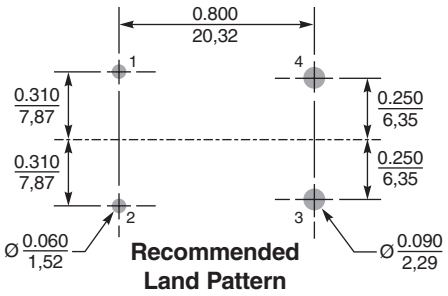
Typical L vs Frequency

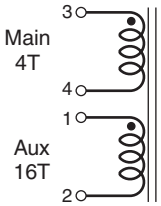


Typical L vs Current









Weight: 11.5 g
Terminations: Matte-tin over nickel over brass
Tape and reel: 200/13″ reel 44 mm tape width

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