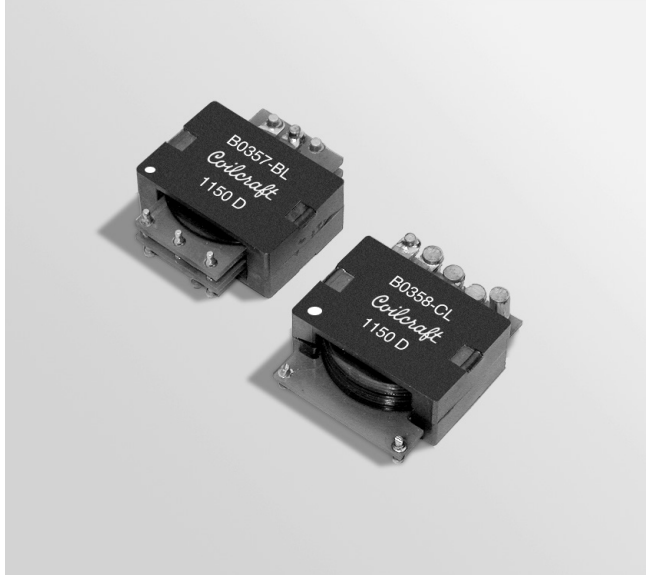




Planar Magnetics

For National Semiconductor
LM5025 and LM5034



Planar transformer and inductor pair designed for the NSC LM5110 Gate Driver and LM5025 Active Clamp Voltage Mode PWM Controller.

These parts are also specified by NSC for use with their LM5034 Dual Interleaved Controller.

Core material Ferrite

Terminations RoHS Matte-tin over nickel over brass

Weight 11.3 – 11.7 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, 9.4 mm pocket depth

PCB washing Only pure water or alcohol recommended

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)
B0357-BL_	100	3.3	30.0	320.0	0.55	Primary: 55.0 Secondary: 1.0	1500

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

B0357-BLD

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

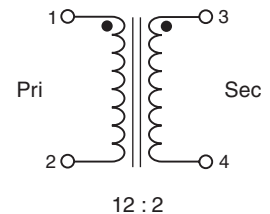
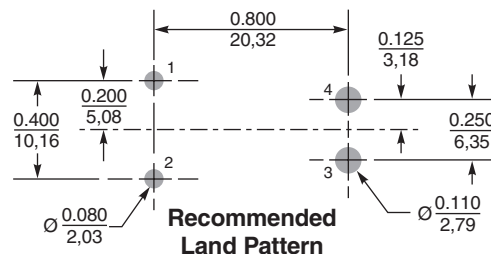
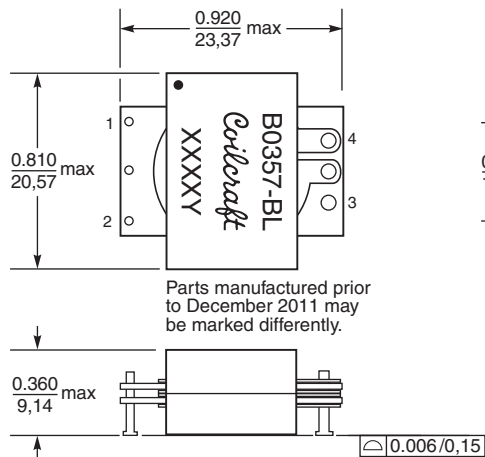
B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

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. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Dimensions are in $\frac{\text{inches}}{\text{mm}}$



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Planar Magnetics for NSC LM5025 and LM5034

Output Inductor

Part number ¹	Inductance ² at 0 Adc (μH)	DCR max (mOhms)	Isolation ³ (Vdc)	Isat ⁴ (A)	Irms ⁵ (A)
B0358-CL_	2.0 ±10%	Main: 2.0 Aux: 900.0	1500	32	36

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

B0358-CLD

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 250 kHz, 0.1 Vrms.

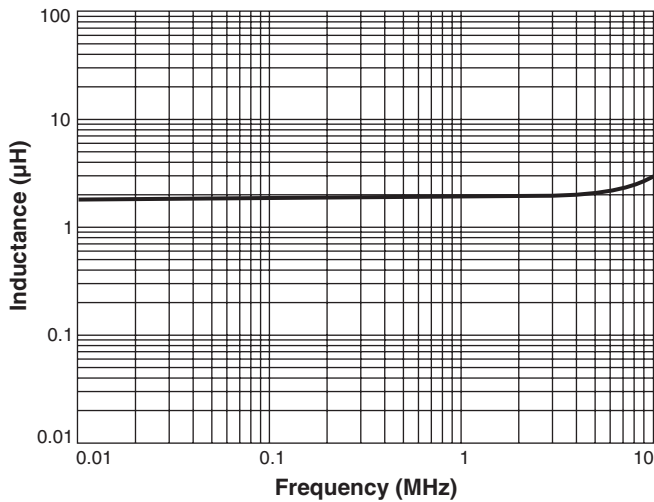
3. Isolation measured from pin 1 to pin 3.

4. DC current at which inductance drops 10% (typ) from its value without current.

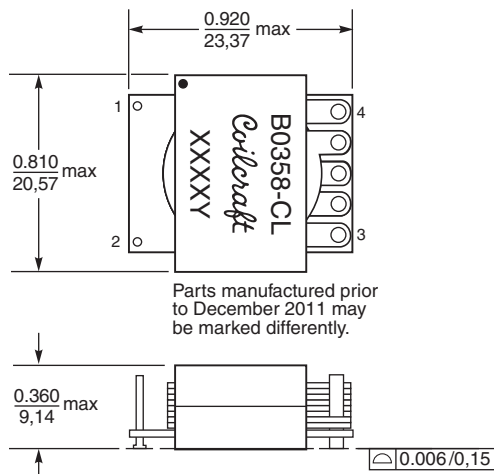
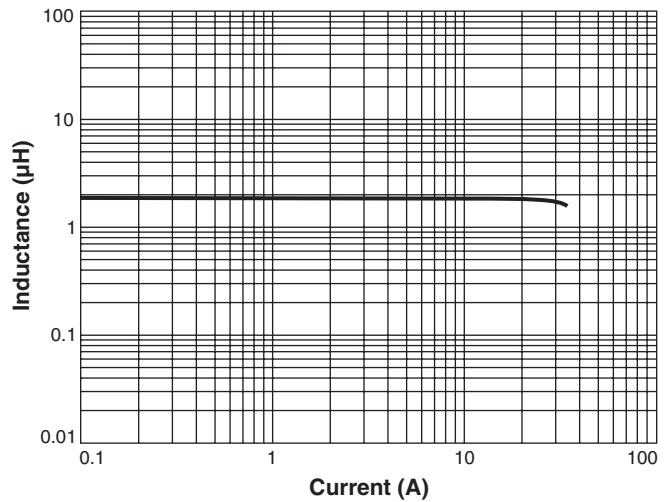
5. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

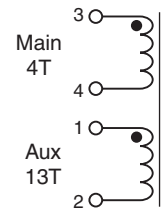
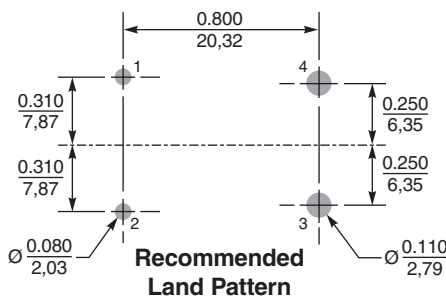
Typical L vs Frequency



Typical L vs Current



Parts manufactured prior to December 2011 may be marked differently.



Dimensions are in inches/mm



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