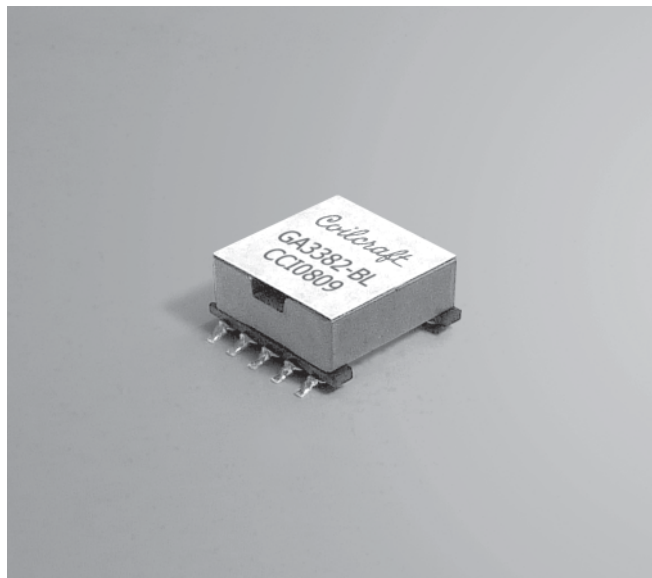


**NEW!**

# Power Inductor – GA3382-BL

For NSC LM25037  
PWM Controller



- Designed for National Semiconductor LM25037 Dual Mode PWM Controller. Shown as L3 on Application Note AN-1861.
- 500 Vrms primary to bias and primary to core isolation
- Bias winding provides 10 Vdc to the circuit

**Core material** Ferrite

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

**Weight** 9.5 g

**Ambient temperature**  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$  with  $I_{\text{rms}}$  current,  $+85^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  with derated current

**Storage temperature** Component:  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$ .  
Packaging:  $-55^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$

**Resistance to soldering heat** Max three 40 second reflows at  $+260^{\circ}\text{C}$ , parts cooled to room temperature between cycles

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

**Mean Time Between Failures (MTBF)** 26,315,789 hours

**Packaging** 175/13" reel Plastic tape: 44 mm wide, 0.4 mm thick, 32 mm pocket spacing, 11.5 mm pocket depth

**PCB washing** Only pure water or alcohol recommended

Part number <sup>1</sup>	Inductance <sup>2</sup> $\pm 10\%$ ( $\mu\text{H}$ )	DCR max (Ohm) <sup>3</sup>		SRF typ (MHz)	Isat (A) <sup>4</sup>			I <sub>rms</sub> (A) <sup>5</sup>	
		pri	bias		10% drop	20% drop	30% drop	20°C rise	40°C rise
GA3382-BL_	4.0	0.0095	0.36	30	16.0	17.0	18.0	6.5	8.5

1. When ordering, please specify **termination** and **packaging** codes:

GA3382-B L D

**Termination:** L = RoHS compliant tin-silver over copper.

**Special order:** T = RoHS tin-silver-copper (95.5/4/0.5) or  
S = non-RoHS tin-lead (63/37).

**Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape.

**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 at 250 kHz, 0.4 Vrms.

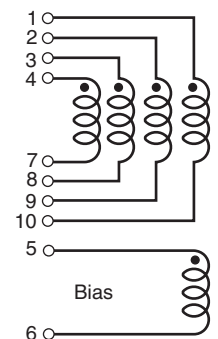
3. DCR for the primary is with the windings connected on parallel.

4. DC current at which inductance drops the specified amount from its value without current.

5. Current that causes the specified temperature rise from  $25^{\circ}\text{C}$  ambient.

6. Electrical specifications at  $25^{\circ}\text{C}$ .

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



Primary windings to be connected in parallel on the PC board

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Please check our website for latest information.

Document 690-1 Revised 09/05/08

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

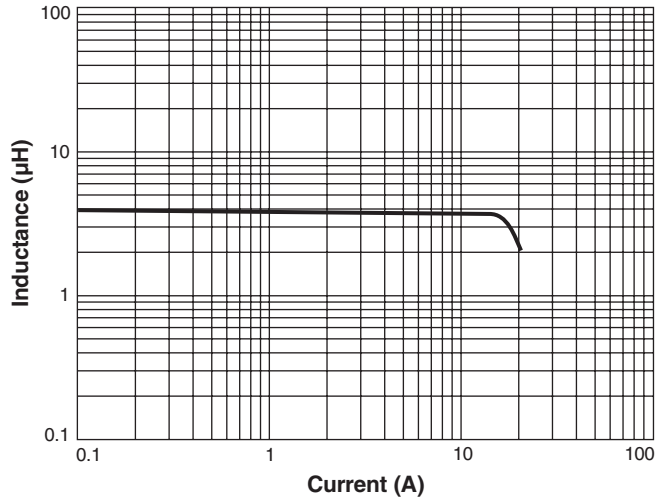
E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>



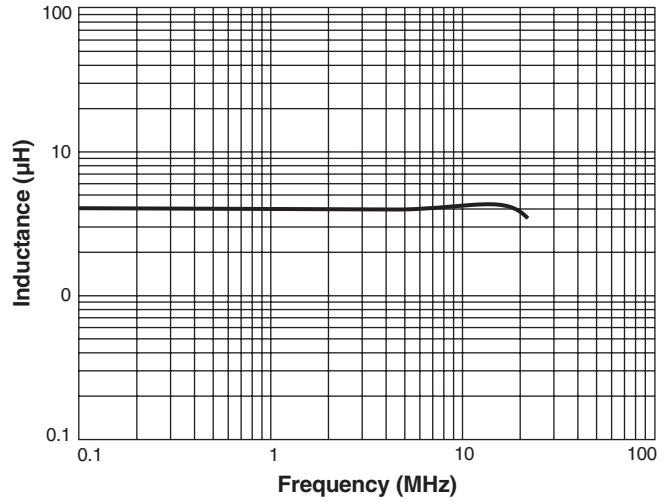
**NEW!**

# Power Inductor – GA3382-BL

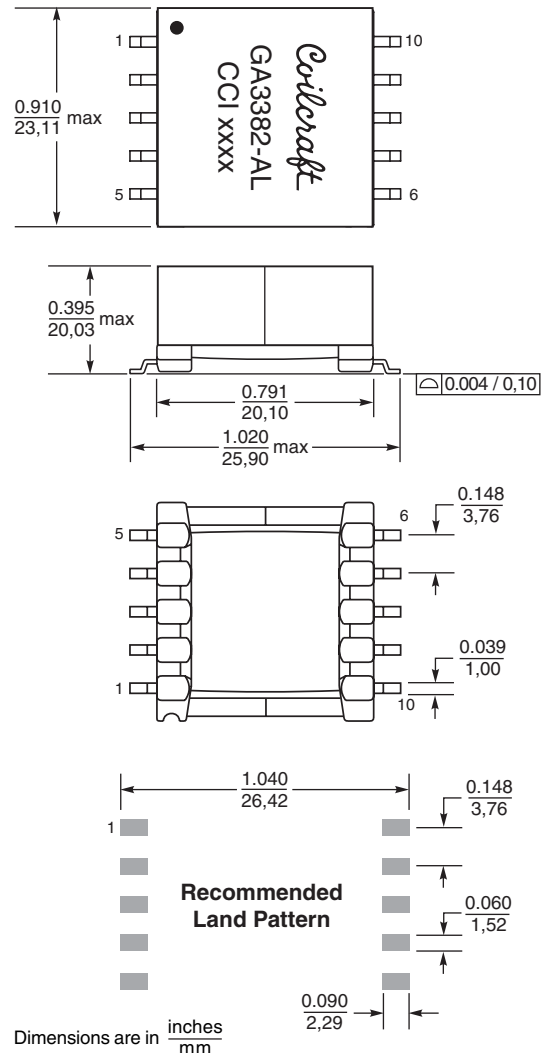
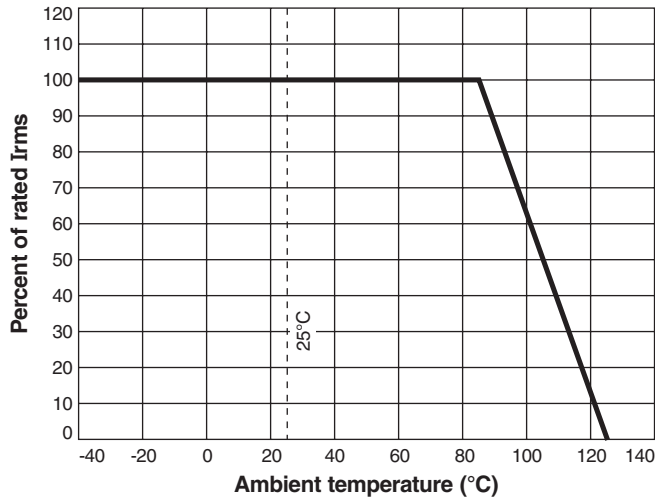
## Inductance vs Current



## Inductance vs Frequency



## Irms Derating



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1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>