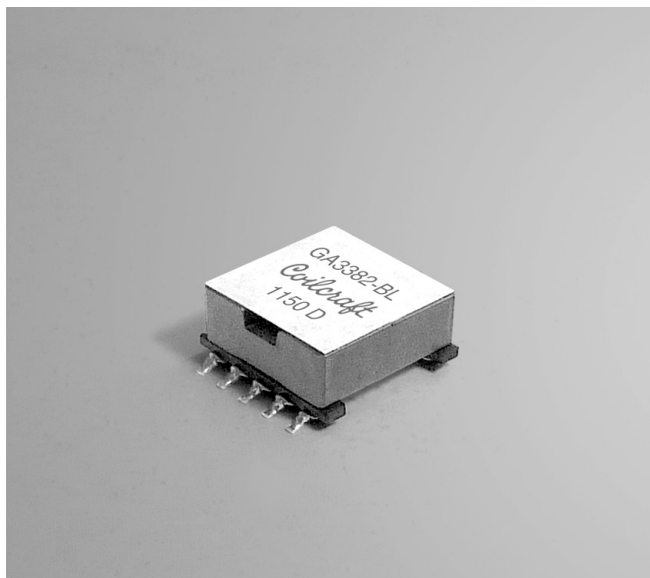




Power Inductor – GA3382-BL

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 (96.5/3.5) over copper. Other terminations available at additional cost.

Weight 9.5 g

Ambient temperature –40°C to +85°C with I_{rms} current, +85°C to +125°C with derated current

Storage temperature Component: –40°C to +125°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 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 ¹	Inductance ² ±10% (µH)	DCR max (Ohm) ³		SRF typ (MHz)	Isat (A) ⁴			I _{rms} (A) ⁵	
		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-BLD

Termination: L = RoHS compliant tin-silver (96.5/3.5) 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.

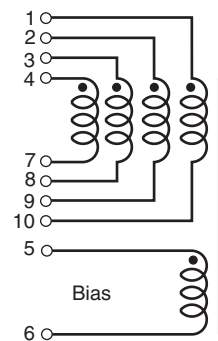
3. DCR for the primary is with the windings connected on parallel.

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°C ambient.

6. Electrical specifications at 25°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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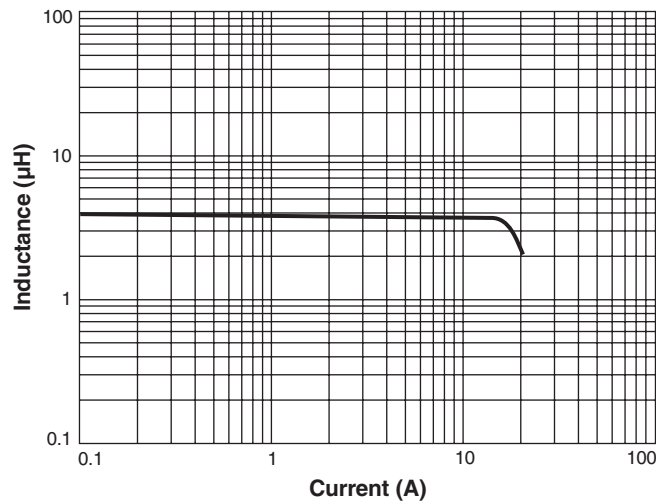
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

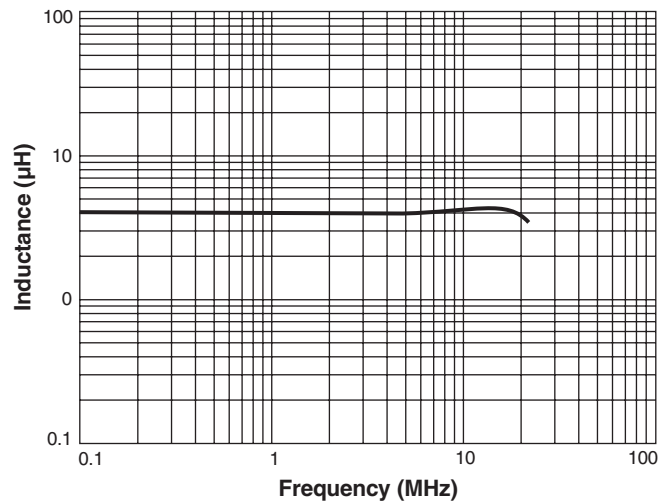


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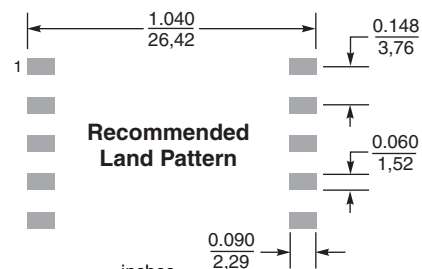
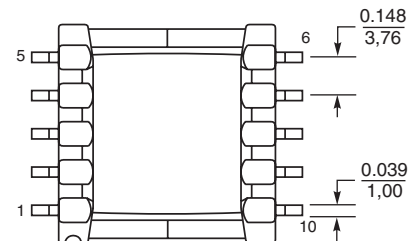
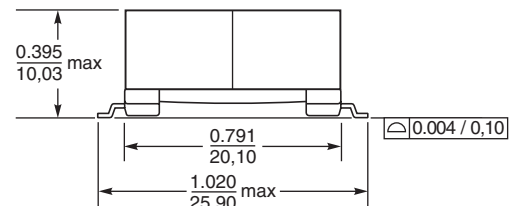
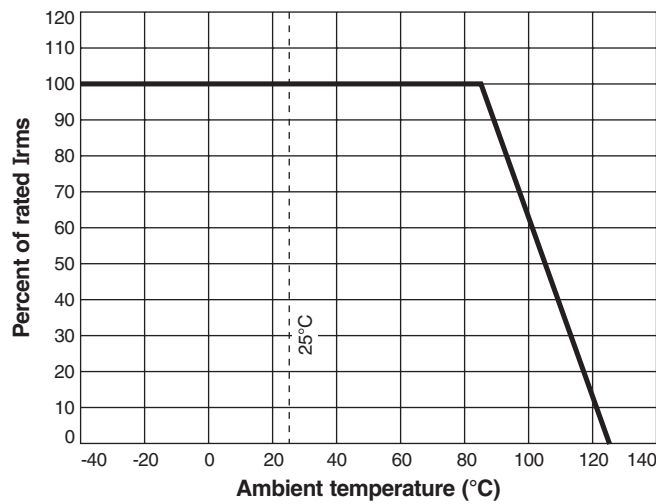
Inductance vs Current



Inductance vs Frequency



Irms Derating



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