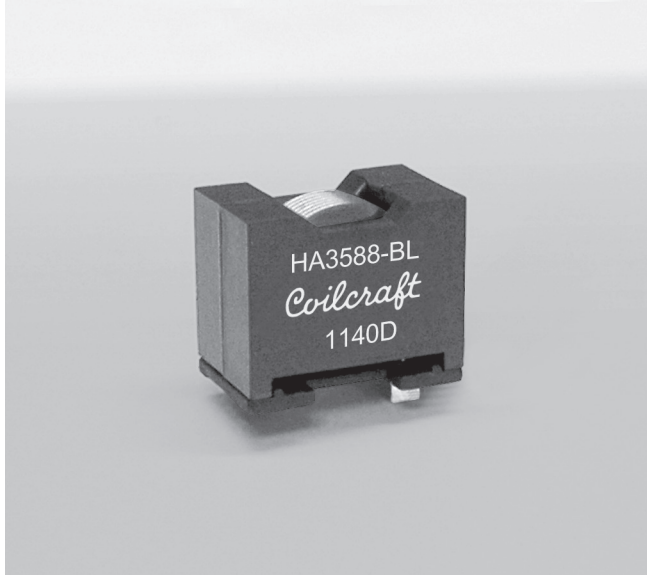




# Power Inductor – HA3588-BL



- Designed for high current power supply applications
- Saturation current of 37 Amps
- Flat wire windings provide exceptionally low DC resistance
- Vertical mounting provides a small footprint

**Core material** Ferrite

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

**Weight** 37 g

**Ambient temperature** –40°C to +85°C with Irms current, +85°C to +125°C with derated current

**Storage temperature** Component: –40°C to +85°C.  
Tray packaging: –40°C to +80°C

**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** 25 parts per tray

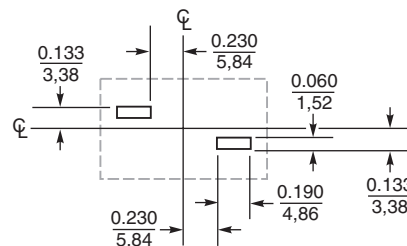
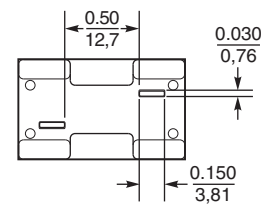
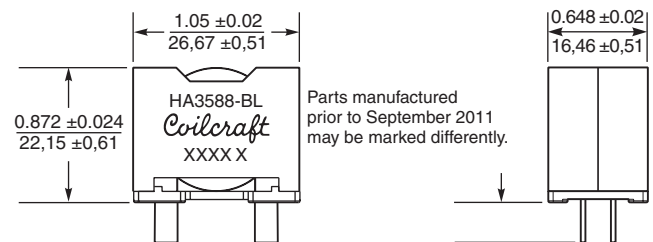
**PCB washing** Only pure water or alcohol recommended

Part number	Inductance <sup>1</sup> ±10% (µH)	DCR max <sup>2</sup> (mOhms)	SRF typ <sup>3</sup> (MHz)	Isat (A) <sup>4</sup>			Irms (A) <sup>5</sup>	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
HA3588-BL	10.0	2.6	17	30	34	37	19	26

1. Inductance tested at 300 kHz, 0.1 Vrms on Agilent/HP 4192A.
2. DCR measured on a Keithley 580 micro-ohmmeter or equivalent.
3. SRF measured on an Agilent/HP 8753ES network analyzer.
4. DC current at which the inductance drops the specified amount from its value without current.
5. Current that causes the specified temperature rise of the winding from 25°C ambient. Temperature rise of the core is usually less than that of the winding.
6. Electrical specifications at 25°C.

### Caution:

This series is not intended for use in high vibration or mechanical shock environments. We advise using additional means of securing the part to the circuit board to ensure its adhesion.



**Recommended  
PC Board Layout**

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



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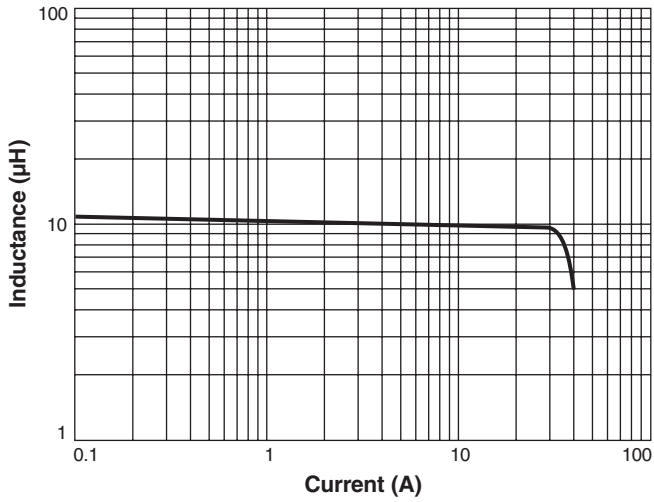
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

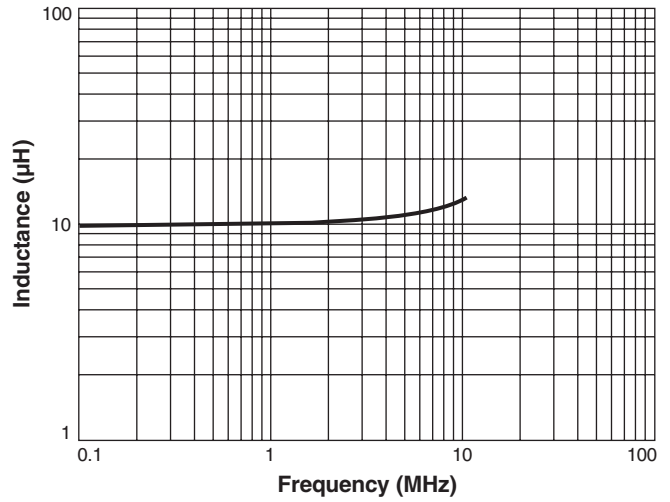


# Power Inductor - HA3588-BL

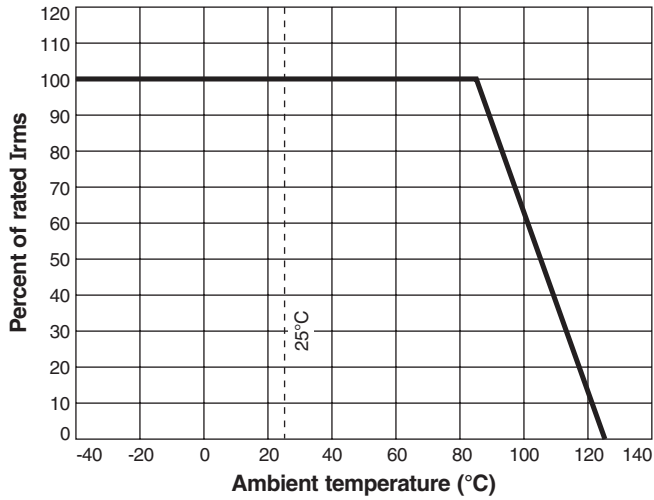
## L vs Current



## L vs Frequency



## Irms Derating



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