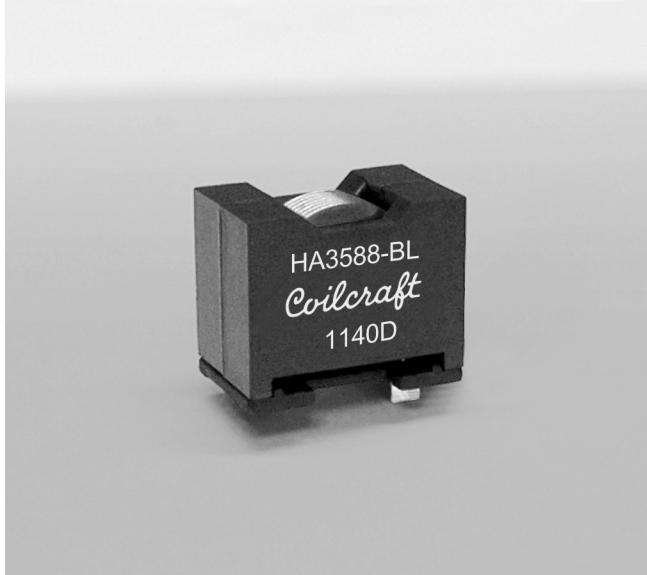


Power Inductor – HA3588-BL



- 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

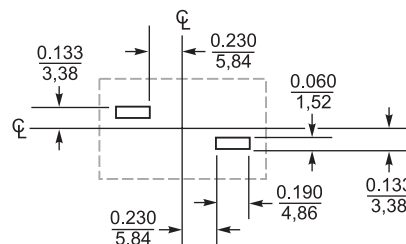
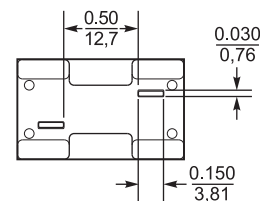
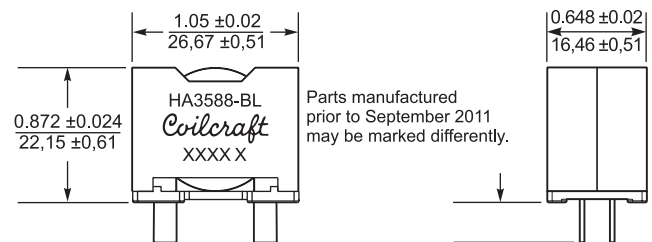
PCB washing Only pure water or alcohol recommended

Part number	Inductance ¹ ±10% (µH)	DCR max ² (mOhms)	SRF typ ³ (MHz)	Isat (A) ⁴			Irms (A) ⁵	
				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.



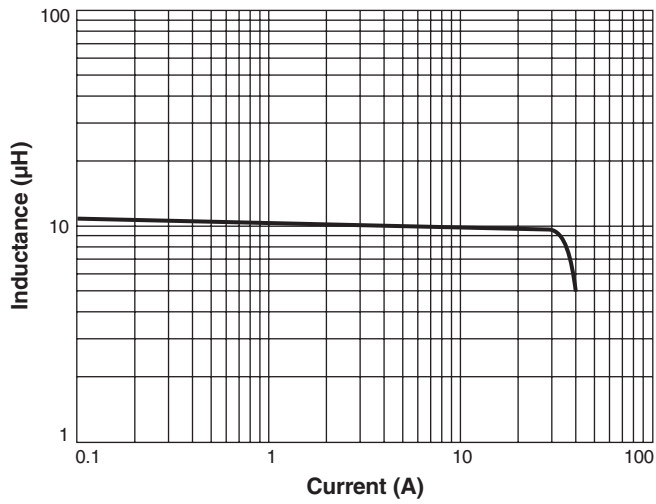
**Recommended
PC Board Layout**

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

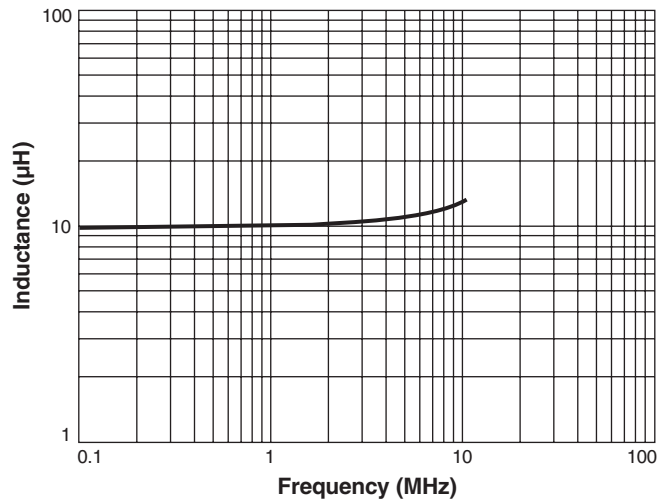


Power Inductor - HA3588-BL

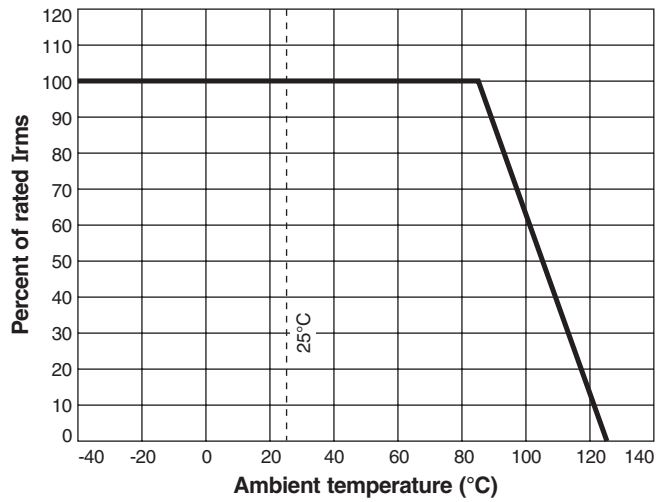
L vs Current



L vs Frequency



Irms Derating



US +1-847-639-6400 sales@coilcraft.com
UK +44-1236-730595 sales@coilcraft-europe.com
Taiwan +886-2-2264 3646 sales@coilcraft.com.tw
China +86-21-6218 8074 sales@coilcraft.com.cn
Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 716-2 Revised 01/10/20

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