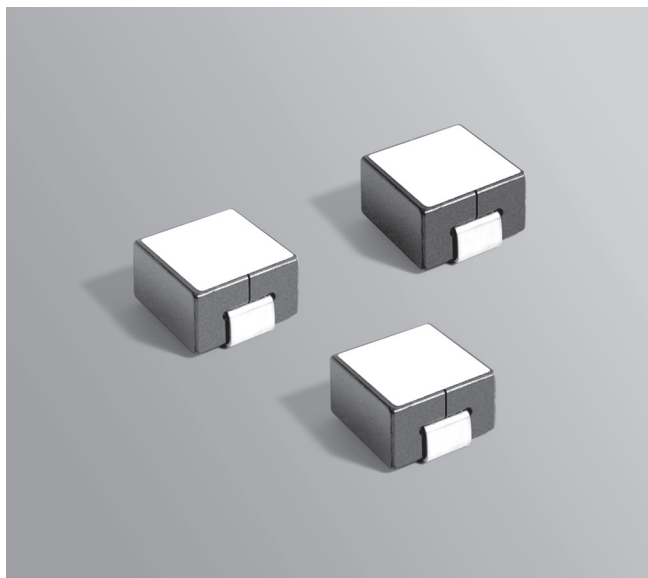


**NEW!**

Shielded Power Inductors – SLC1480



The SLC1480 is designed for high-speed switch mode applications requiring low inductance and very high saturation current ratings. While requiring a mere quarter square inch of board space, it can handle current as high as 130 A.

These shielded inductors are ideal for use in multi-phase VRM/VRD regulators and high current/high frequency DC/DC converters.

For free evaluation samples, contact Coilcraft or order them on-line at www.coilcraft.com.

Part number ¹	Inductance ² ±20% (nH)	DCR (mOhms) ³		SRF typ ⁴ (MHz)	Isat (A) ⁵			Irms (A) ⁶	
		min	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
SLC1480-111ML_	110	0.15	0.21	130	110	128	130	39	55
SLC1480-131ML_	130	0.15	0.21	110	97	110	112	39	55
SLC1480-151ML_	150	0.15	0.21	108	88	95	97	39	55
SLC1480-171ML_	170	0.15	0.21	75	80	87	90	39	55
SLC1480-201ML_	200	0.15	0.21	68	65	72	76	39	55
SLC1480-231ML_	230	0.15	0.21	59	57	64	67	39	55
SLC1480-261ML_	260	0.15	0.21	50	50	57	61	39	55
SLC1480-301ML_	300	0.15	0.21	46	42	49	52	39	55
SLC1480-321ML_	320	0.15	0.21	42	38	44	48	39	55
SLC1480-441ML_	440	0.15	0.21	35	28	32	35	39	55

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

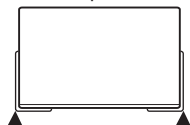
SLC1480-321MLD

Packaging: **D** = 13" machine-ready reel. EIA-481 embossed plastic tape (500 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 C instead.

2. Inductance tested at 100 kHz, 0.1 Vrms using an Agilent/HP 4284.

3. DCR is measured between the two points indicated below.



▲ Points used for measuring DCR

4. SRF measured using an Agilent/HP 8753ES network analyzer or equivalent.

5. DC current at which the inductance drops from its value without current.

6. Current that causes the specified temperature rise from 25°C ambient.

7. Electrical specifications at 25°C.

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

Core material Ferrite

Terminations RoHS compliant matte tin over nickel over copper.
Other terminations available at additional cost.

Weight 5.25 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 +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 500/13" reel; Plastic tape: 24 mm wide, 0.4 mm thick, 16 mm pocket spacing, 8.1 mm pocket depth

PCB washing Only pure water or alcohol recommended



www.coilcraft.com

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 482-1 Revised 03/02/11

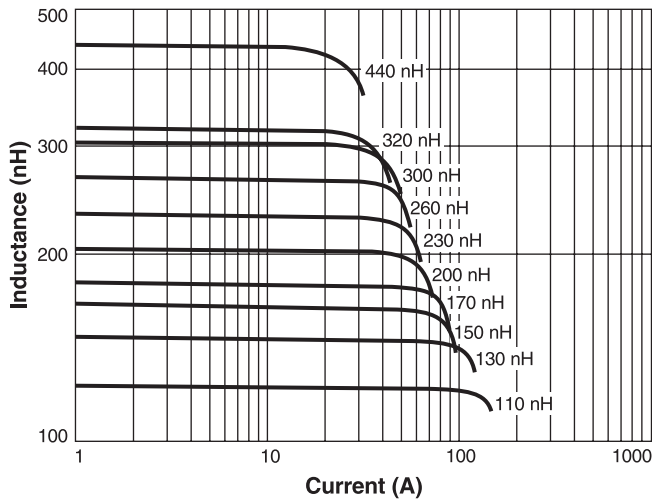
© Coilcraft Inc. 2011

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

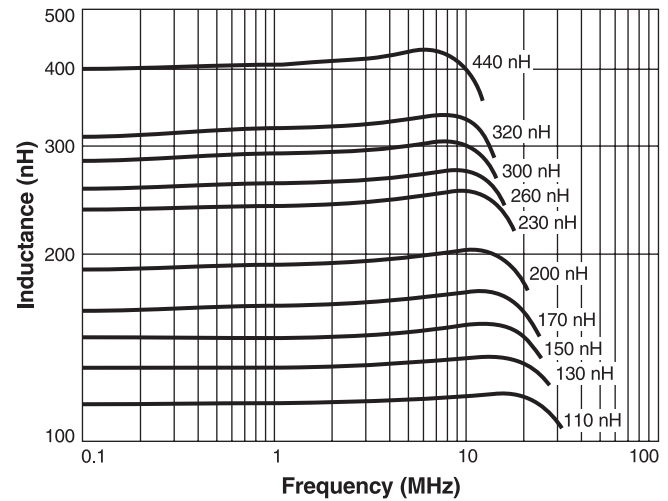

NEW!

Shielded Power Inductors – SLC1480 Series

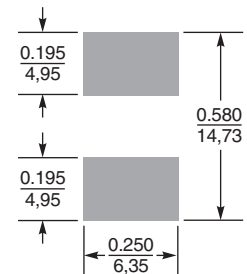
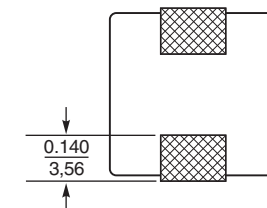
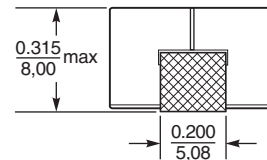
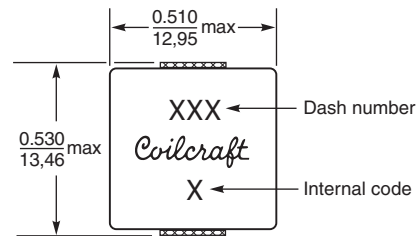
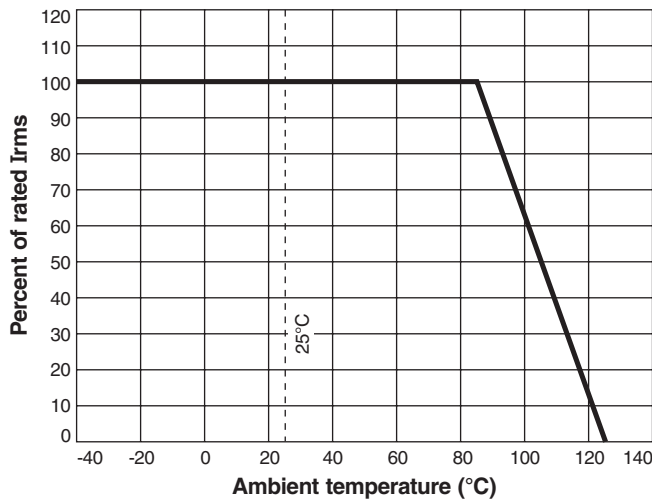
L vs Current



L vs Frequency



Irms Derating



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

**Recommended
Land Pattern**