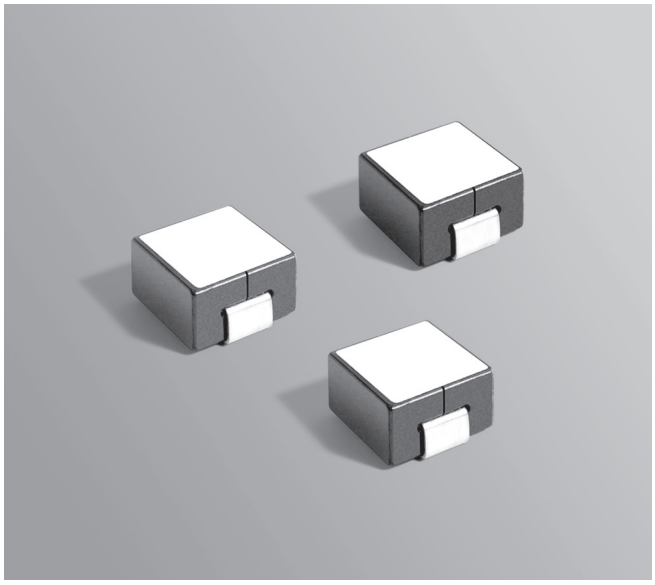
NEW!

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] min	DCR (mOhms)[3] max	SRF typ[4] (MHz)	Isat (A)[5] 10% drop	Isat (A)[5] 20% drop	Isat (A)[5] 30% drop	Irms (A)[6] 20°C rise	Irms (A)[6] 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

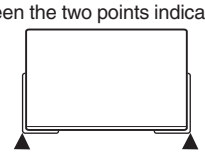
1. When ordering, please specify **packaging** code:

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

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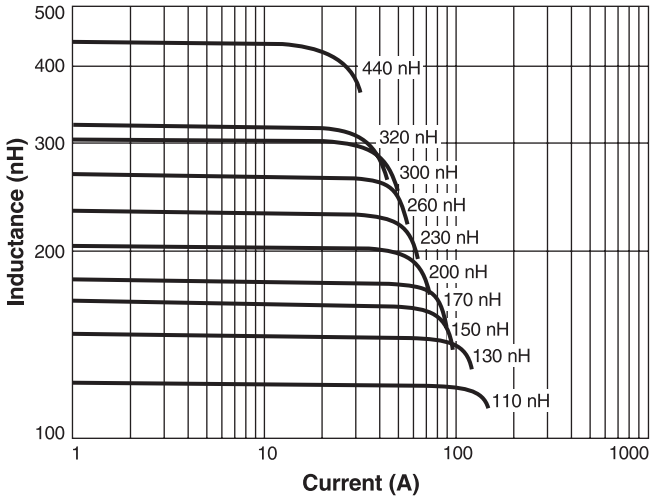
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Specifications subject to change without notice.
Please check our web site for latest information.

NEW!

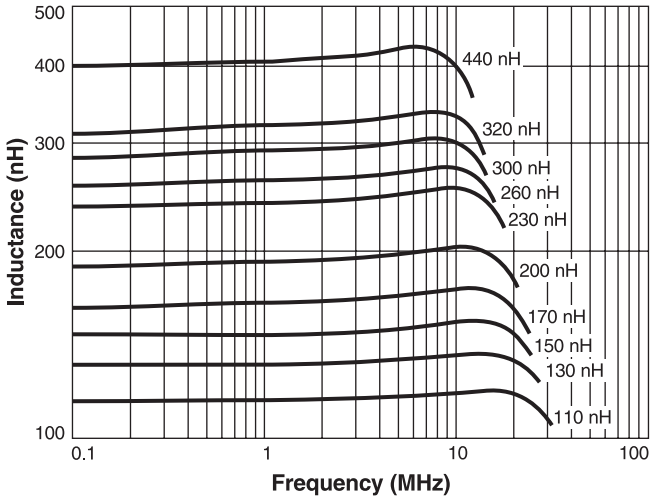
RoHS COMPLIANT

Shielded Power Inductors – SLC1480 Series

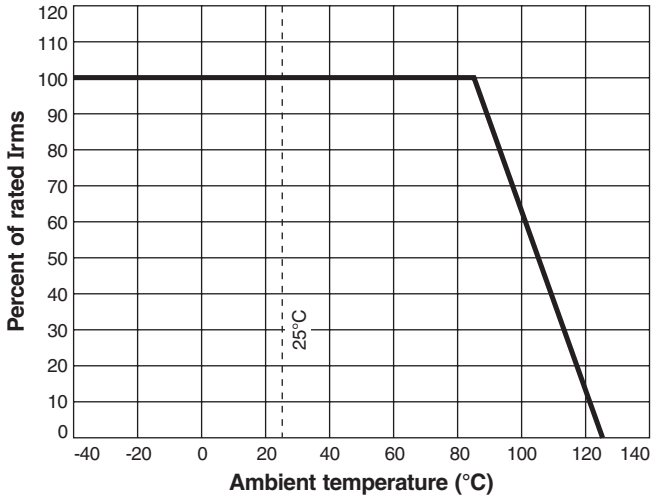
L vs Current

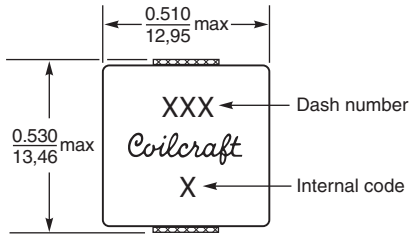


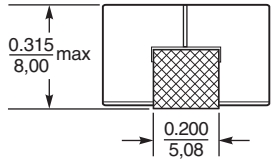
L vs Frequency

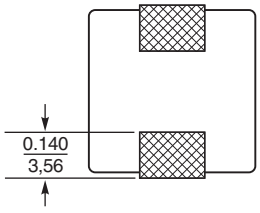


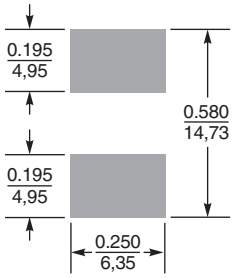
Irms Derating











Recommended Land Pattern

Dimensions are in inches / mm

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