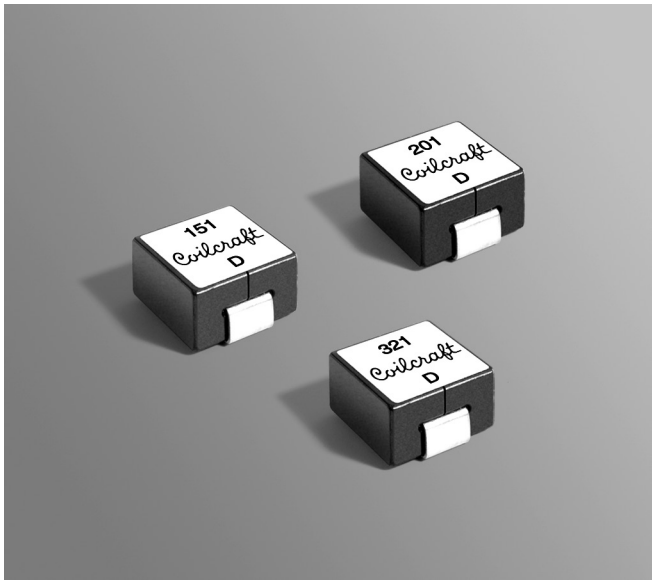
Shielded Power Inductors – SLC1480



- Requires a mere quarter square inch of board space
- Handles current as high as 130 A.
- Ideal for use in multi-phase VRM/VRD regulators

Designer's Kit C467 contains 3 each of select values.
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 (40°C rise) Irms current.
Maximum part temperature +125°C (ambient + temp rise). Derating.
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 Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

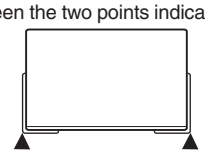
Part number[1]	Inductance[2] ±20% (nH)	DCR (mOhms)[3] min	DCR (mOhms)[3] max	SRF typ[4] (MHz)	Isat (A)[5] 10% drop	Isat (A)[5] 20% drop	Isat (A)[5] 30% drop	Irms (A)[6] 20°C rise	Irms (A)[6] 40°C rise
SLC1480-111ML_	110	0.15	0.21	130	110	128	130	39	55
SLC1480-131ML_	130	0.15	0.21	110	97	110	112	39	55
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 25°C that causes the specified inductance drop from its value without current. Click for temperature derating information.
6. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. Click for temperature derating information.
7. Electrical specifications at 25°C.

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

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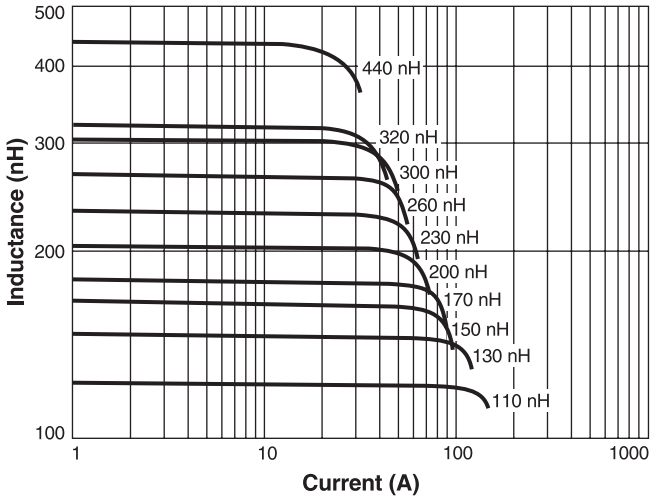
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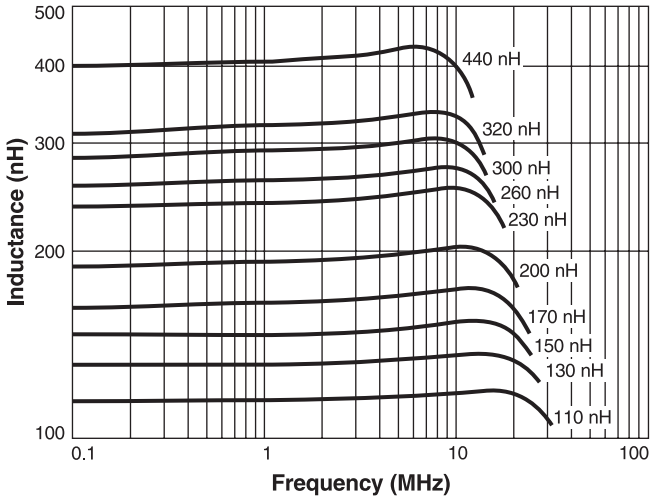
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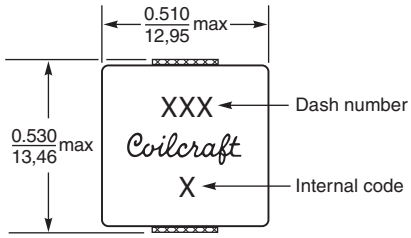
Shielded Power Inductors – SLC1480 Series

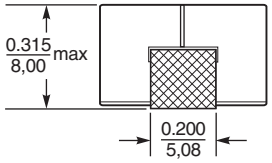
L vs Current

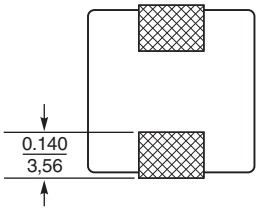


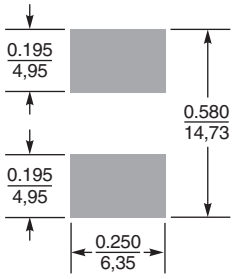
L vs Frequency











Recommended Land Pattern

Dimensions are in inches / mm

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