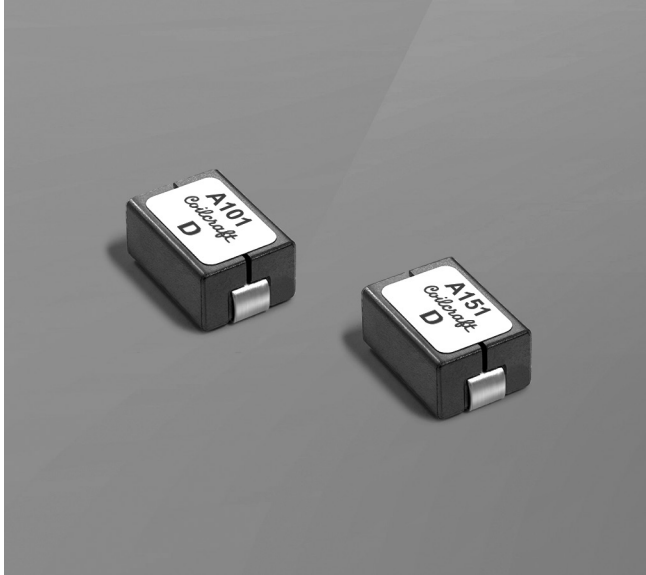


Shielded Power Inductors – SLR1050



- Tight DCR tolerance for inductor-DCR-based current sensing circuits
- Three versions for optimal efficiency and accuracy
- Excellent current handling
- 10.2 × 7.0 × 4.95 mm surface mount package
- Designed for use in multi-phase VRM/VRD/EVRD regulators

Designer's Kit C467 contains 3 each of select values.

Core material Ferrite

Weight 1.2 – 1.4 g

Environmental RoHS compliant, halogen free

Terminations RoHS compliant matte tin over nickel over copper.

Ambient temperature –40°C to +85°C with Irms current

Maximum part temperature +125°C (ambient + temp rise). [Derating](#).

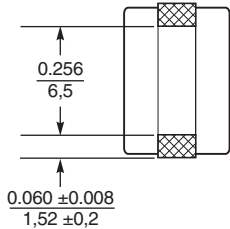
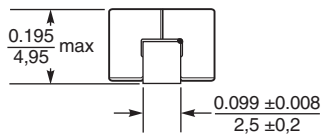
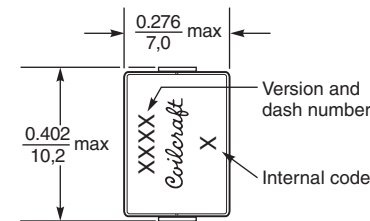
Storage temperature Component: –40°C to +125°C.

Tape and reel packaging: –40°C to +80°C

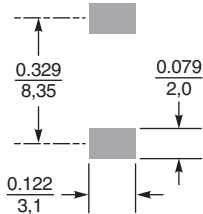
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787 PCB Washing.pdf](#).

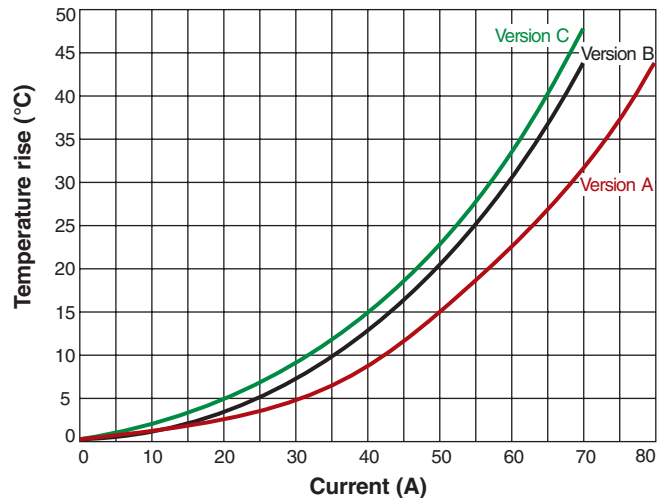


Recommended Land Pattern



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

Typical Temperature Rise (from 25°C)



Packaging 250/7" reel; 1000/13" reel; Plastic tape: 24 mm wide, 0.4 mm thick, 12 mm pocket spacing, 5.03 mm pocket depth



SLR1050 Shielded Power Inductors

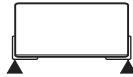
Part number ¹	Inductance ² ±10% (nH)	DCR ³ (mOhms)	SRF typ (MHz)	Isat (A) ⁴			Irms (A) ⁵	
				at 25°C	at 100°C	at 125°C	20°C rise	40°C rise
Lowest DCR								
SLR1050A-850KE_	85	0.39 ±7.7%	210	86	68.0	60.5	56.7	77.1
SLR1050A-101KE_	100	0.39 ±7.7%	200	78	61.5	55.0	56.7	77.1
SLR1050A-121KE_	120	0.39 ±7.7%	180	65	51.0	48.0	56.7	77.1
SLR1050A-151KE_	150	0.39 ±7.7%	90	51	38.0	36.0	56.7	77.1
SLR1050A-221KE_	220	0.39 ±7.7%	65	35	25.5	23.5	56.7	77.1
Balanced DCR/tolerance								
SLR1050B-850KE_	85	0.47 ±6.7%	210	86	68.0	60.5	48.8	67.2
SLR1050B-101KE_	100	0.47 ±6.7%	200	78	61.5	55.0	48.8	67.2
SLR1050B-121KE_	120	0.47 ±6.7%	180	65	51.0	48.0	48.8	67.2
SLR1050B-151KE_	150	0.47 ±6.7%	90	51	38.0	36.0	48.8	67.2
SLR1050B-221KE_	220	0.47 ±6.7%	65	35	25.5	23.5	48.8	67.2
Tightest DCR tolerance								
SLR1050C-850KE_	85	0.55 ±5.4%	210	86	68.0	60.5	46.7	65.0
SLR1050C-101KE_	100	0.55 ±5.4%	200	78	61.5	55.0	46.7	65.0
SLR1050C-121KE_	120	0.55 ±5.4%	180	65	51.0	48.0	46.7	65.0
SLR1050C-151KE_	150	0.55 ±5.4%	90	51	38.0	36.0	46.7	65.0
SLR1050C-221KE_	220	0.55 ±5.4%	65	35	25.5	23.5	46.7	65.0

1. When ordering, please specify **version** and **packaging** codes:

SLR1050C-221KEC

- Version** **A** = Lowest DCR; **B** = Balanced DCR/DCR tol;
 C = Tightest DCR tolerance
- Packaging:** **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
- B** = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.
- D** = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).

2. Inductance at 100 kHz, 0.1 Vrms, 0 Adc.
3. DCR is measured on a micro-ohmmeter at points indicated in the diagram



4. DC current at 25°C that causes an inductance drop of 20% (typ) from its value without current. [Click for temperature derating information.](#)

5. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. Temperature rise is highly dependent on many factors including pcb land pattern, trace size, air flow, and proximity to other components. Therefore temperature rise should be verified in application conditions. [Click for temperature derating information.](#)
6. Electrical specifications at 25°C.
 Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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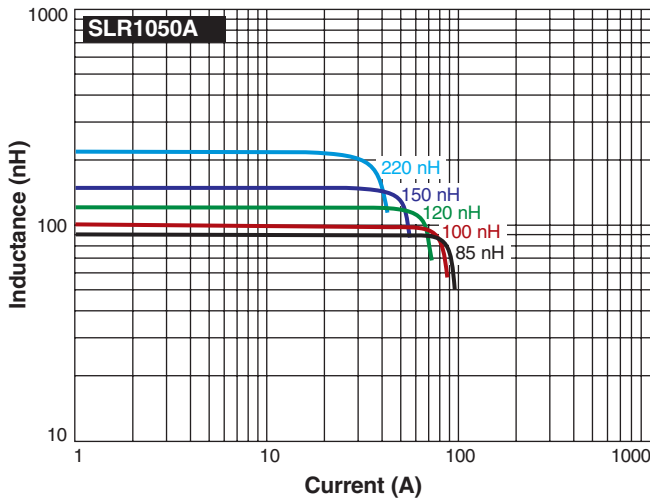
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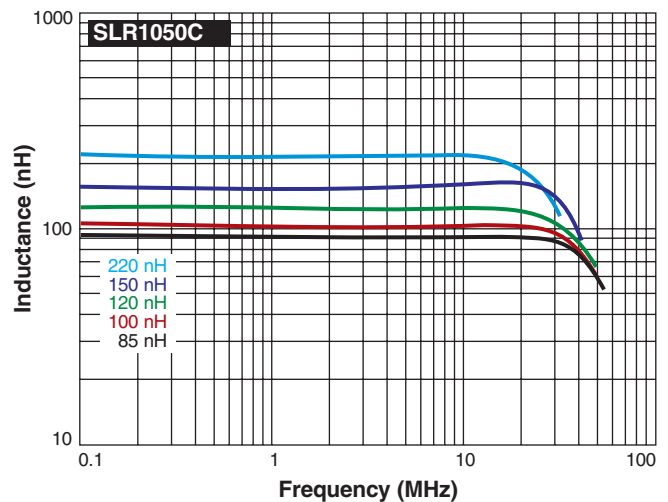
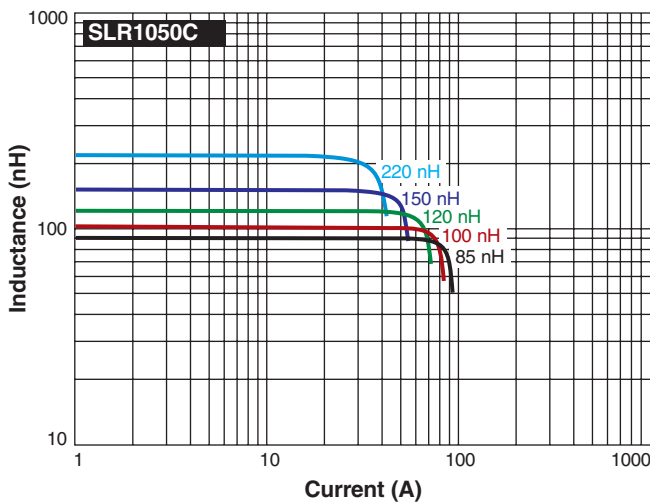
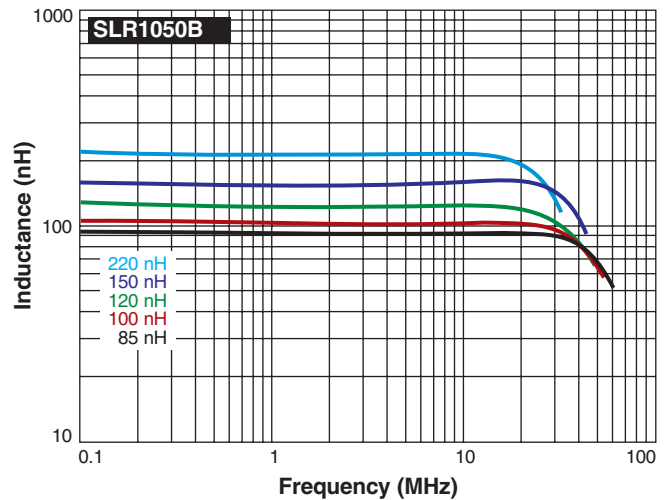
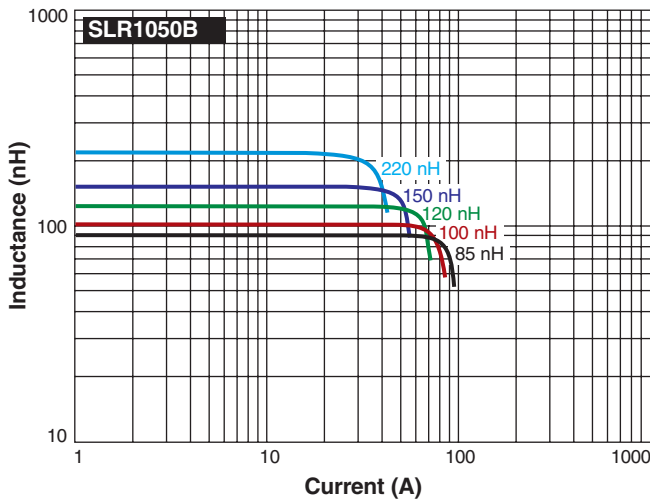
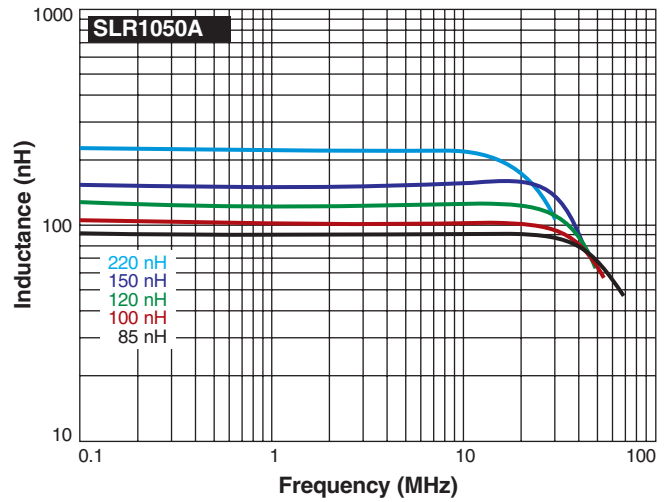


SLR1050 Shielded Power Inductors

L vs Current



L vs Frequency



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