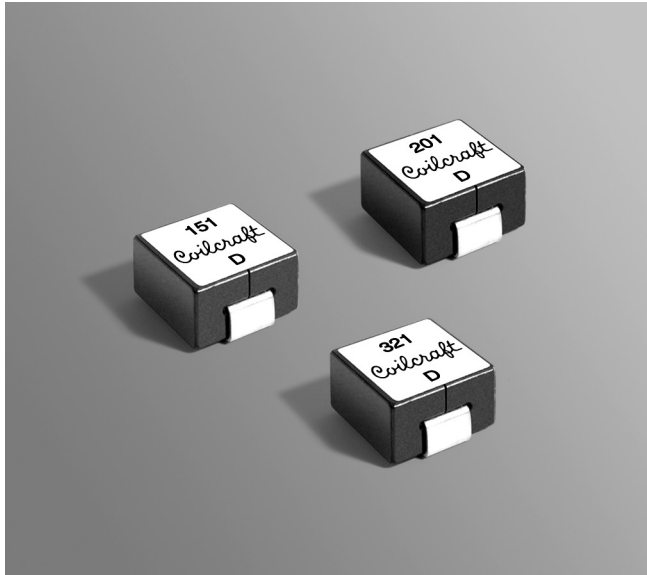


# Shielded Power Inductors – SLC1480



- 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 <sup>1</sup>	Inductance <sup>2</sup> ±20% (nH)	DCR (mOhms) <sup>3</sup>		SRF typ <sup>4</sup> (MHz)	Isat (A) <sup>5</sup>			Irms (A) <sup>6</sup>	
		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:

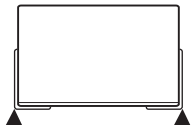
**SLC1480-321MLD**

**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 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](#).

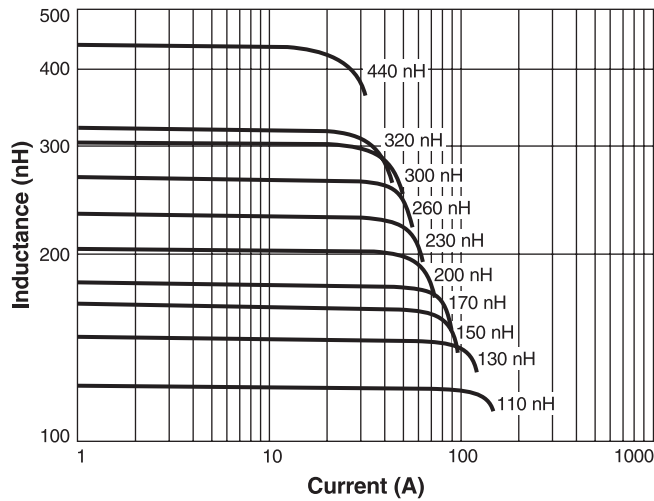
7. Electrical specifications at 25°C.

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

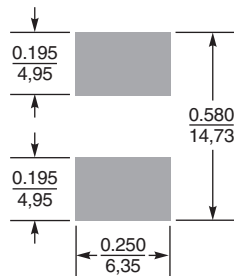
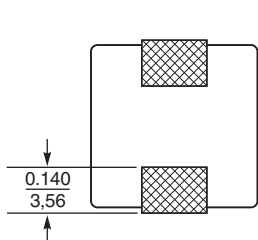
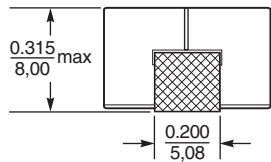
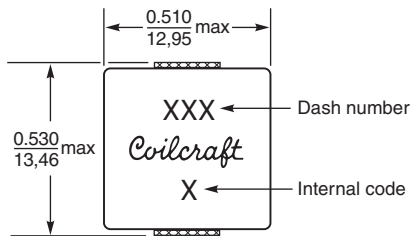
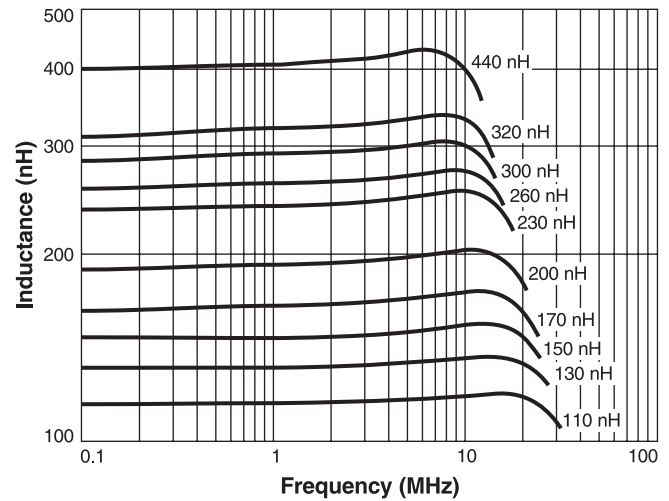


# Shielded Power Inductors – SLC1480 Series

## L vs Current



## L vs Frequency



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

### Recommended Land Pattern



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