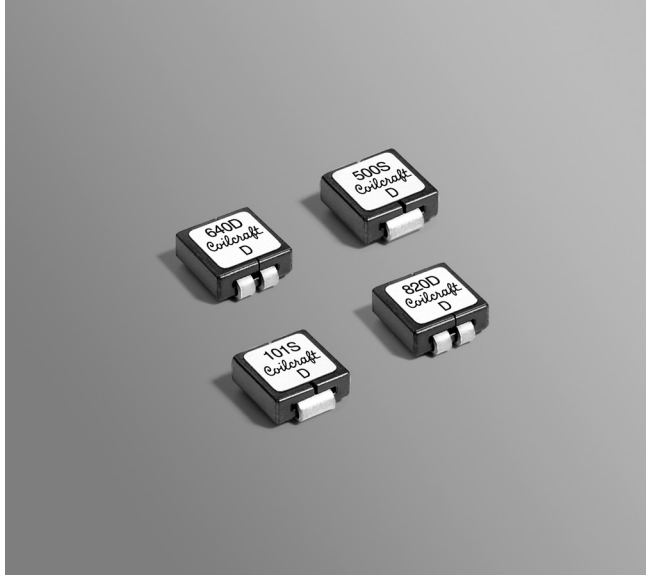


Shielded Power Inductors – SLC7530



- Designed for high-speed switch mode applications
- Can be used as a 1:1 transformer or in SEPIC applications

Designer's Kit C379 contains 3 each of all values.

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

Core material Ferrite

Core and winding loss See www.coilcraft.com/coreloss

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

Weight: 0.44 – 0.47 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 500/7" reel; 1700/13" reel; Plastic tape: 16 mm wide, 0.33 mm thick, 12 mm pocket spacing, 3.12 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Single Conductor

Part number ¹	L $\pm$ 20% ² (μ H)	DCR $\pm$ 5% ³ (mOhms)	SRF typ ⁴ (GHz)	Isat ⁵ (A)	Irms ⁶ (A)
SLC7530S-500ML_	0.050	0.123	3.80	50	40
SLC7530S-640ML_	0.064	0.123	3.65	32	40
SLC7530S-820ML_	0.082	0.123	3.75	22	40
SLC7530S-101ML_	0.100	0.123	3.75	20	40

Dual Conductor

Leads connected in parallel

Leads connected in series

Part number ¹	L $\pm$ 20% ² (μ H)	DCR $\pm$ 5% ³ (mOhms)	SRF typ ⁴ (GHz)	Isat ⁵ (A)	Irms ⁶ (A)	L $\pm$ 20% ² (μ H)	DCR max ³ (mOhms)	SRF typ ⁴ (GHz)	Isat ⁵ (A)	Irms ⁶ (A)
SLC7530D-500ML_	0.050	0.209	3.75	50	38	0.188	1.00	1.50	21	17
SLC7530D-640ML_	0.064	0.209	3.65	32	38	0.272	1.00	1.30	14	17
SLC7530D-820ML_	0.082	0.209	3.75	22	38	0.350	1.00	1.20	11	17
SLC7530D-101ML_	0.100	0.209	3.75	20	38	0.400	1.00	0.950	8	17

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

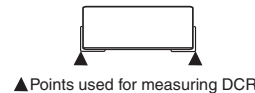
SLC7530S-101MLC

Termination: L = RoHS compliant matte tin over nickel over copper
Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (500 parts 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.
 D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1700 parts per full reel).

2. Inductance tested at 100 kHz, 0.1 Vrms using an Agilent/HP 4263B LCR meter or equivalent.

3. DCR is measured on a micro-ohmmeter at points indicated in the diagram.



4. SRF measured using an Agilent/HP 8753ES network analyzer and a Coilcraft SMD-D fixture.
 5. DC current at 25°C that causes a 20% (typ) inductance drop from its value without current. [Click for temperature derating information](#).
 6. Current that causes a 40°C 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.

SPICE models
ON OUR WEB SITE



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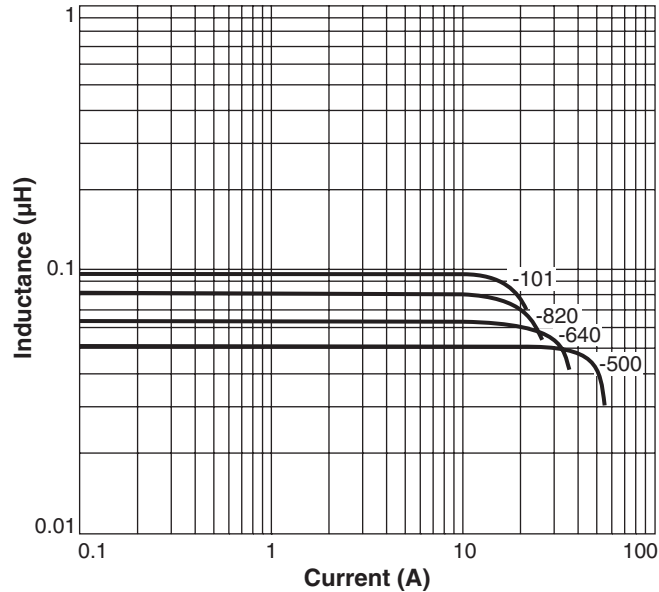
This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



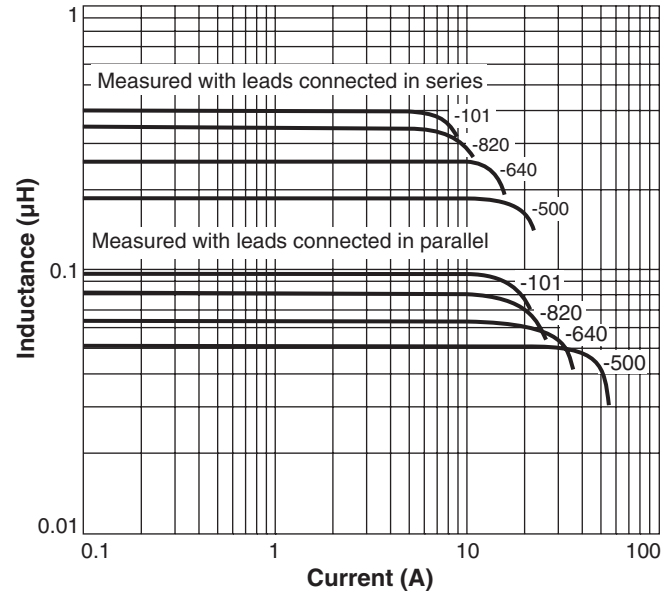
Shielded Power Inductors - SLC7530 Series

Typical L vs Current

Single Conductor

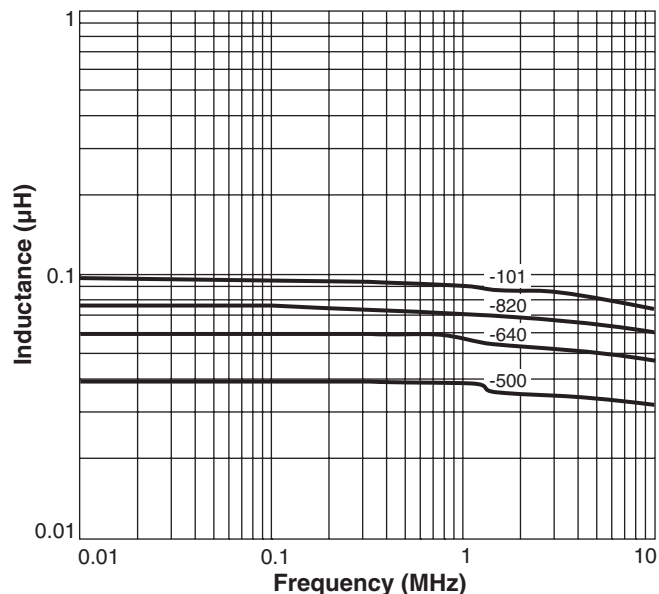


Dual Conductor

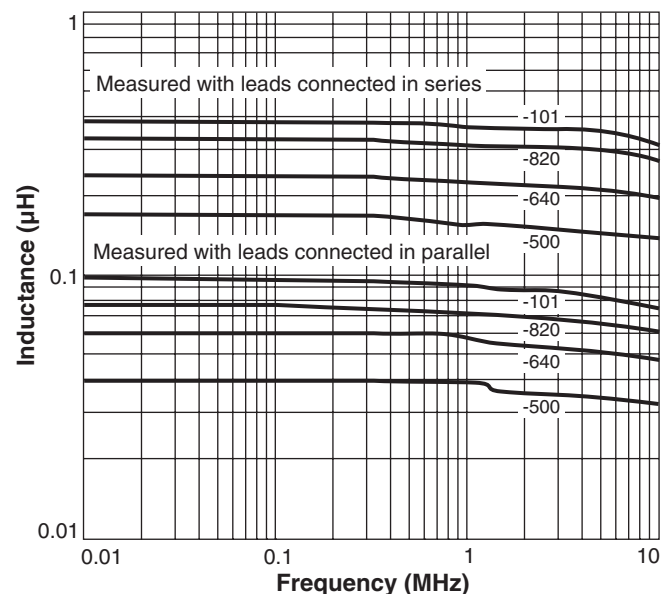


Typical L vs Frequency

Single Conductor



Dual Conductor



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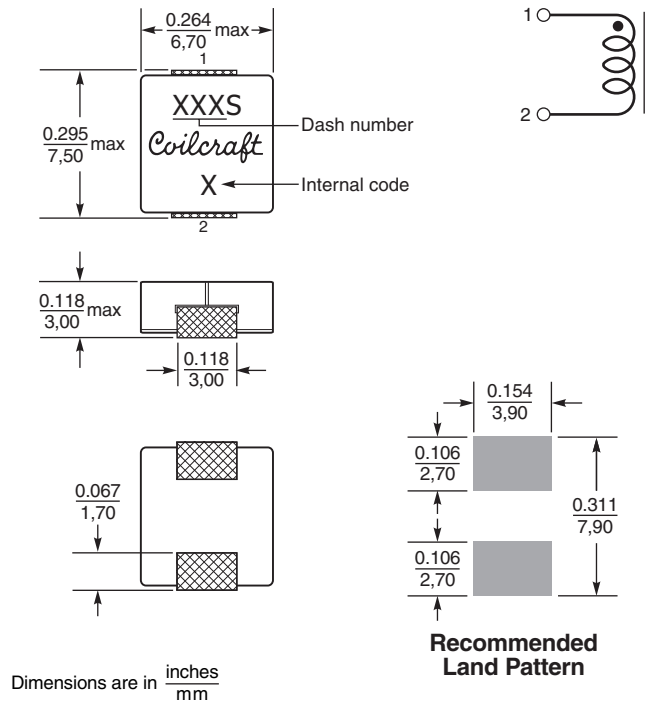
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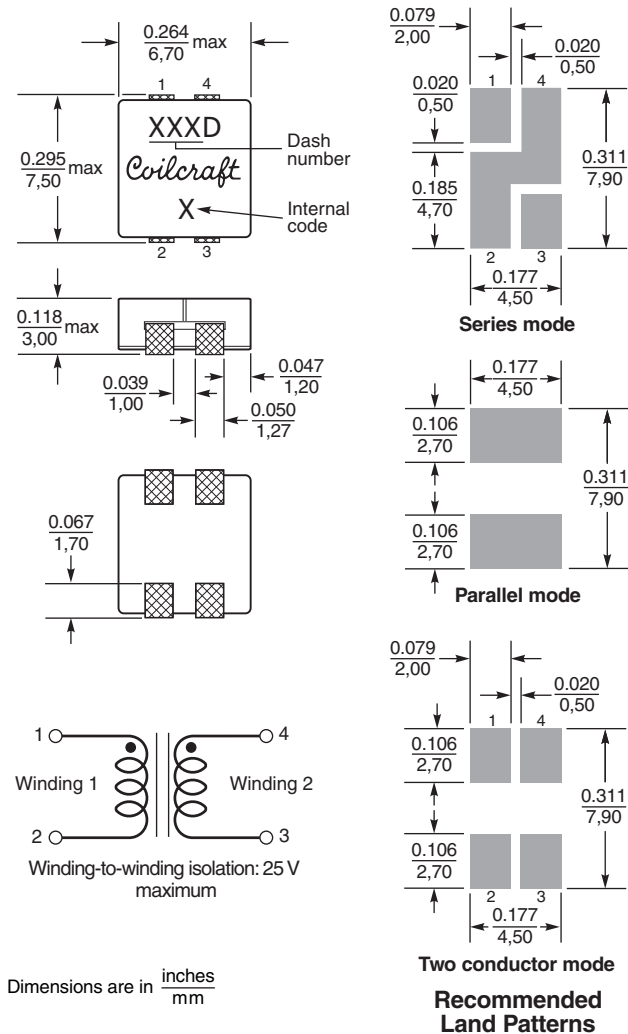


Shielded Power Inductors - SLC7530 Series

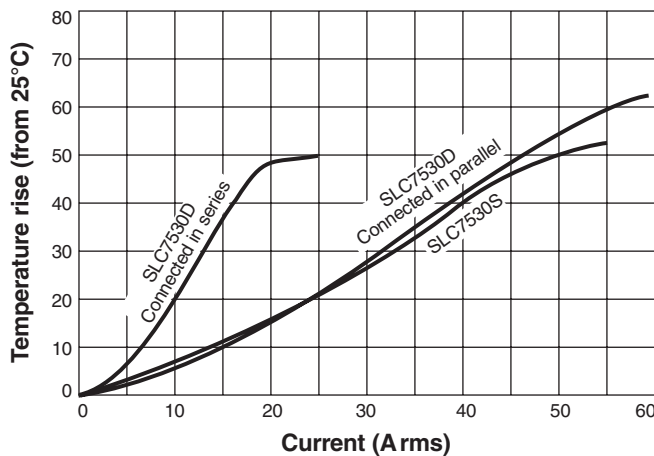
Dimensions – Single Conductor



Dimensions – Dual Conductor



Typical Temperature Rise vs Current



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Coilcraft:

[SLC7530D-820MLC](#) [SLC7530S-500MLC](#) [SLC7530S-101MLB](#) [SLC7530D-640MLC](#) [SLC7530S-640MLB](#) [SLC7530D-500MLC](#) [SLC7530S-820MLB](#) [SLC7530D-101MLB](#) [SLC7530D-500MLB](#) [SLC7530D-101MLC](#) [SLC7530S-640MLC](#) [SLC7530S-500MLB](#) [SLC7530S-820MLC](#) [SLC7530D-640MLB](#) [SLC7530D-820MLB](#) [SLC7530S-101MLC](#)