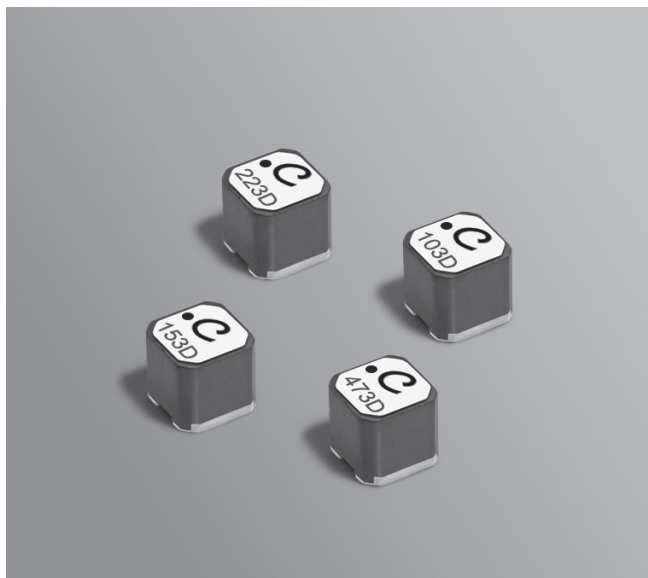


Shielded Power Inductors - LPS3030



- Small 3.0 × 3.0 mm footprint
- Very low DCR; excellent current handling
- AEC-Q200 Grade 1 qualified (−40°C to +125°C ambient)
- Samples of all values are available in Designer's Kit C485

Core material Ferrite

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

Environmental RoHS compliant, halogen free

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

Weight 80 – 90 mg

Ambient temperature −40°C to +125°C with (40°C rise) Irms current.

Maximum part temperature +165°C (ambient + temp rise). [Derating](#).

Storage temperature Component: −40°C to +165°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)

Recommended pick and place nozzle OD: 3 mm; ID: ≤ 1.5 mm

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% (μH)	DCR max ³ (Ohms)	SRF typ ⁴ (MHz)	Isat (A) ⁵			Irms (A) ⁶	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
LPS3030-103MR_	10	0.150	42.8	0.64	0.68	0.70	0.90	1.20
LPS3030-153MR_	15	0.240	35.7	0.54	0.56	0.60	0.75	1.00
LPS3030-183MR_	18	0.270	26.1	0.50	0.52	0.54	0.70	0.90
LPS3030-223MR_	22	0.310	26.0	0.42	0.46	0.48	0.65	0.85
LPS3030-333MR_	33	0.390	19.6	0.36	0.40	0.42	0.60	0.80
LPS3030-473MR_	47	0.580	14.6	0.32	0.32	0.33	0.50	0.65
LPS3030-683MR_	68	0.730	12.1	0.24	0.26	0.27	0.45	0.62
LPS3030-104MR_	100	1.12	9.8	0.21	0.22	0.23	0.35	0.46
LPS3030-124MR_	120	1.44	8.7	0.19	0.20	0.21	0.32	0.42
LPS3030-154MR_	150	1.94	7.4	0.17	0.18	0.19	0.26	0.34
LPS3030-184MR_	180	2.11	7.0	0.16	0.16	0.17	0.24	0.32
LPS3030-224MR_	220	2.52	6.0	0.14	0.15	0.16	0.22	0.30
LPS3030-334MR_	330	4.30	4.9	0.11	0.12	0.13	0.18	0.23
LPS3030-474MR_	470	5.60	4.1	0.10	0.10	0.11	0.16	0.20
LPS3030-564MR_	560	7.92	3.3	0.08	0.09	0.10	0.12	0.16
LPS3030-684MR_	680	8.89	2.9	0.07	0.08	0.09	0.11	0.15
LPS3030-824MR_	820	10.9	2.9	0.06	0.07	0.08	0.10	0.14

1. Please specify **termination** and **packaging** codes:

LPS3030-824MRC

Termination: R= RoHS compliant matte tin over nickel over silver.

Special order, added cost:

Q = RoHS tin-silver-copper (95.5/4/0.5) or P = non-RoHS tin-lead (63/37).

Packaging: C= 7" machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

D= 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (2000 parts per full reel).

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4192A impedance analyzer or equivalent. Inductance at 1 MHz is the same for parts with SRF ≥ 10 MHz.
 - DCR measured on a micro-ohmmeter.
 - SRF measured using an Agilent/HP 8753ES or equivalent.
 - DC current at 25°C that causes the specified inductance drop from its value without current. [Click for temperature derating information](#).
 - 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](#).
 - Electrical specifications at 25°C.
- Refer to [Doc 362 "Soldering Surface Mount Components"](#) before soldering.



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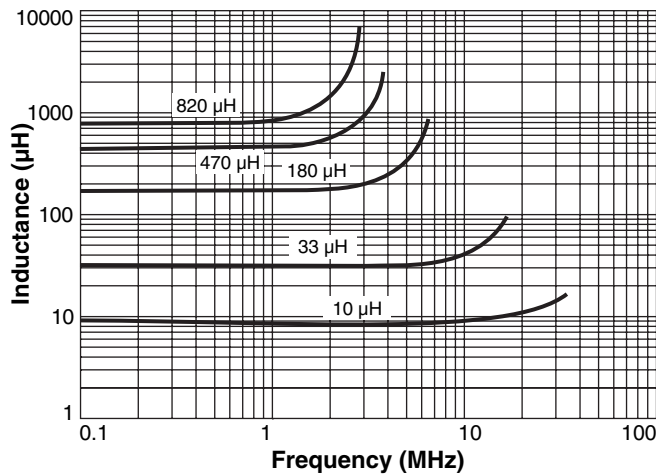
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

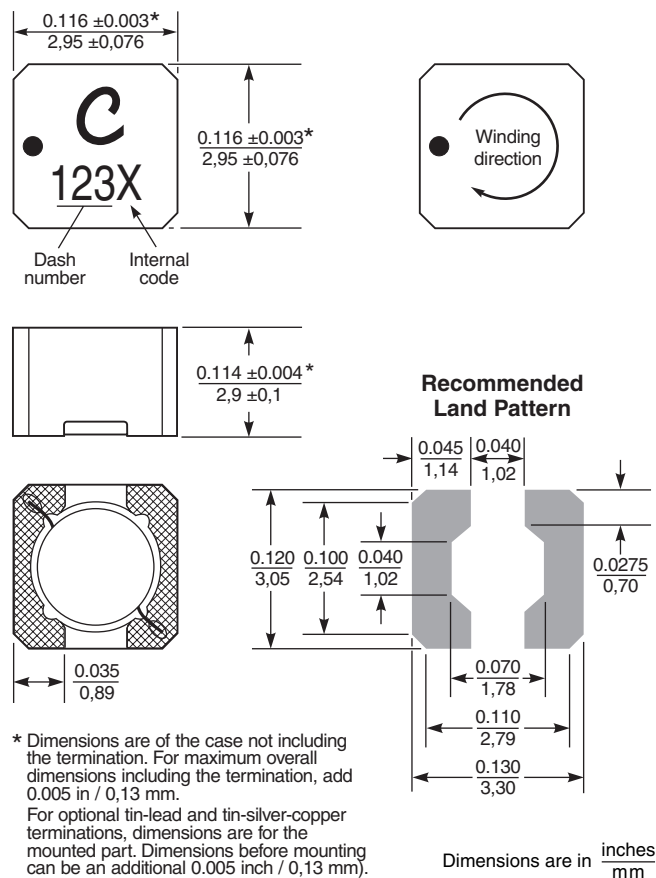
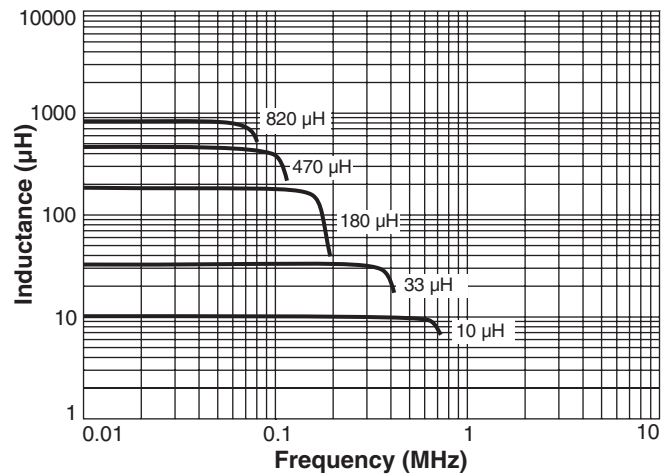


Shielded SMT Power Inductors – LPS3030 Series

L vs Frequency



Typical L vs Current



Packaging 600/7" reel; 2000/13" reel; Plastic tape: 12 mm wide, 0.30 mm thick, 8 mm pocket spacing, 3.3 mm pocket depth