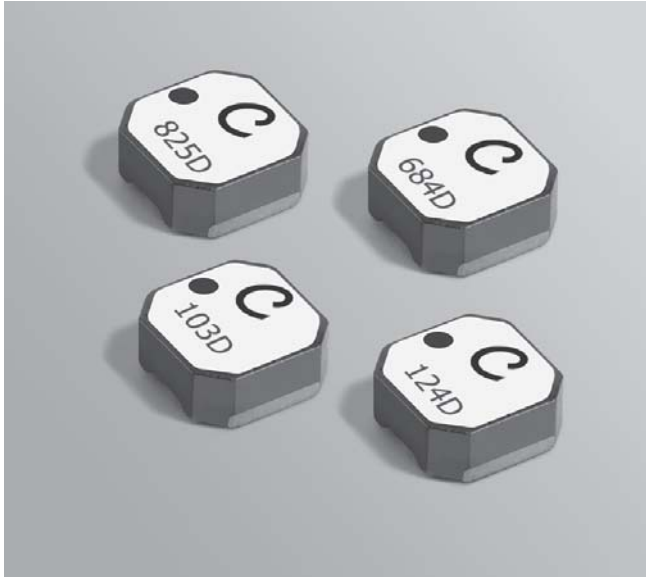




Shielded Power Inductors - LPS6225 Series



- Low DCR; high current; shielded construction
- Perfect for backlight applications

Designer's Kit C349 contains 3 each of all values

Core material Ferrite

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

Terminations RoHS compliant silver-palladium-platinum-glass frit. Other terminations available at additional cost.

Weight 309 – 331 mg

Ambient temperature –40°C to +85°C with I_{rms} current, +85°C to +125°C with derated current

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

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 750/7" reel; 2500/13" reel Plastic tape: 12 mm wide, 0.3 mm thick, 8 mm pocket spacing, 2.57 mm pocket depth

Recommended pick and place nozzle OD: 6.2 mm; ID: ≤ 3.1 mm

PCB washing Only pure water or alcohol recommended

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
LPS6225-122ML_	1.2	0.040	178	5.3	5.4	5.4	1.1	1.65
LPS6225-222ML_	2.2	0.045	100	3.9	4.0	4.1	1.0	1.40
LPS6225-332ML_	3.3	0.055	68	3.5	3.5	3.6	1.0	1.35
LPS6225-472ML_	4.7	0.065	53	3.0	3.1	3.2	0.90	1.30
LPS6225-682ML_	6.8	0.095	40	2.6	2.7	2.8	0.90	1.30
LPS6225-103ML_	10	0.105	35	2.1	2.1	2.2	0.90	1.30
LPS6225-153ML_	15	0.135	23	2.1	2.2	2.2	0.85	1.20
LPS6225-223ML_	22	0.175	17	1.4	1.5	1.6	0.80	1.10
LPS6225-333ML_	33	0.260	14	1.1	1.2	1.2	0.65	0.90
LPS6225-473ML_	47	0.360	10	0.98	1.0	1.0	0.60	0.80
LPS6225-683ML_	68	0.420	9.6	0.58	0.61	0.62	0.57	0.74
LPS6225-104ML_	100	0.610	7.7	0.48	0.51	0.52	0.47	0.64
LPS6225-124ML_	120	0.750	7.4	0.42	0.45	0.46	0.43	0.58
LPS6225-154ML_	150	0.920	6.4	0.39	0.41	0.42	0.40	0.54
LPS6225-224ML_	220	1.30	5.0	0.32	0.34	0.35	0.37	0.50
LPS6225-334ML_	330	2.00	3.8	0.26	0.27	0.28	0.28	0.39
LPS6225-474ML_	470	2.60	3.2	0.22	0.23	0.24	0.24	0.37
LPS6225-684ML_	680	4.00	2.8	0.18	0.19	0.20	0.18	0.26
LPS6225-105ML_	1000	6.00	2.3	0.15	0.16	0.17	0.15	0.24
LPS6225-155ML_	1500	9.00	1.8	0.12	0.13	0.13	0.13	0.20
LPS6225-185ML_	1800	11.7	1.7	0.11	0.12	0.12	0.11	0.14
LPS6225-225ML_	2200	13.5	1.3	0.10	0.10	0.11	0.11	0.13
LPS6225-335ML_	3300	21.0	1.1	0.099	0.10	0.11	0.080	0.11
LPS6225-475ML_	4700	30.0	0.90	0.086	0.096	0.10	0.075	0.090
LPS6225-565ML_	5600	36.0	0.72	0.083	0.090	0.096	0.070	0.090
LPS6225-685ML_	6800	43.0	0.70	0.080	0.086	0.089	0.065	0.080
LPS6225-825ML_	8200	54.0	0.69	0.079	0.086	0.088	0.060	0.075
LPS6225-106ML_	10000	70.0	0.68	0.075	0.084	0.087	0.060	0.065

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

LPS6225-106M L C

Termination: L = RoHS compliant silver-palladium-platinum-glass frit.

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 (750 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 (2500 parts per full reel).

2. Inductance tested at 100 kHz, 0.1 V_{rms}, 0 Adc.

3. DCR measured on a micro-ohmmeter.

4. SRF measured using Agilent/HP 8753ES or equivalent.

5. DC current that causes the specified inductance drop from its value without current.

6. Current that causes the specified temperature rise from 25°C ambient.

7. Electrical specifications at 25°C.

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

Coilcraft[®]

Specifications subject to change without notice.
Please check our website for latest information.

Document 554-1 Revised 03/12/10

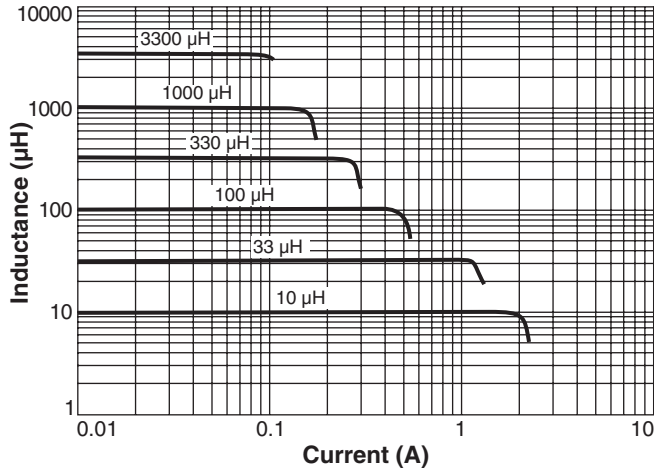
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail info@coilcraft.com Web <http://www.coilcraft.com>

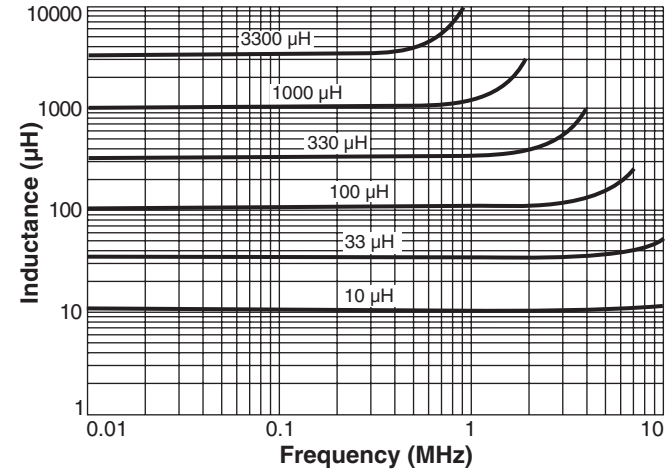


Shielded SMT Power Inductors – LPS6225 Series

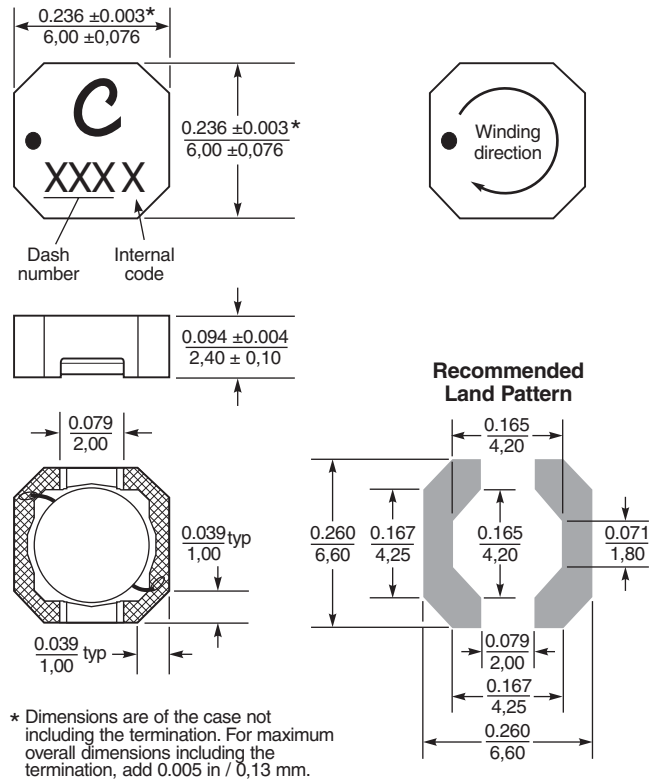
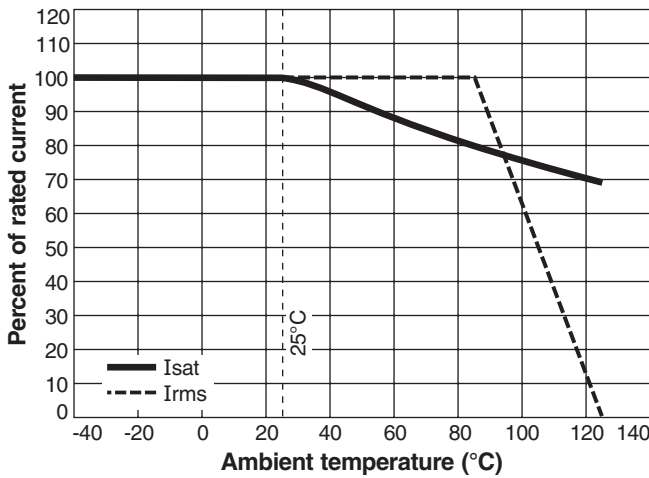
Typical L vs Current



Typical L vs Frequency



Current Derating



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



Specifications subject to change without notice.
Please check our website for latest information.

Document 554-2 Revised 03/12/10

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail info@coilcraft.com Web <http://www.coilcraft.com>