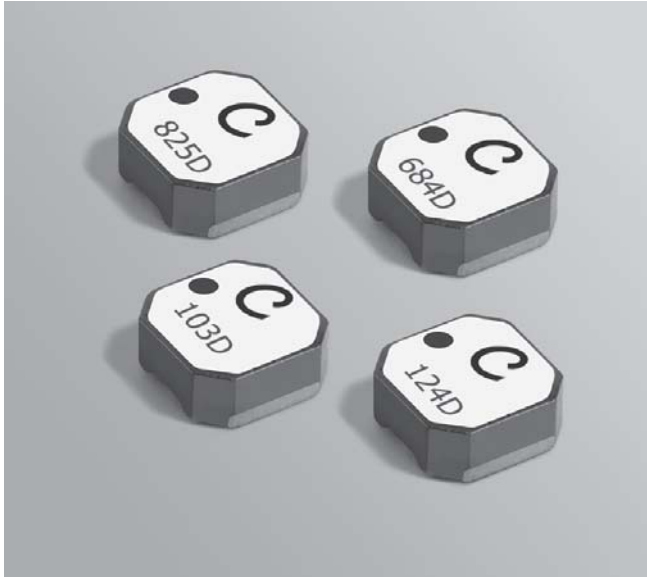


**NEW!**

# 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](http://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<sub>rms</sub> current, +85°C to +125°C with derated current

**Storage temperature** Component: –40°C to +125°C.  
Packaging: –55°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)

**Mean Time Between Failures (MTBF)** 26,315,789 hours

**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 <sup>1</sup>	Inductance <sup>2</sup> ± 20% (µH)	DCR max <sup>3</sup> (Ohms)	SRF typ <sup>4</sup> (MHz)	Isat (A) <sup>5</sup>			Irms (A) <sup>6</sup>	
				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	0.960	0.10	0.075	0.090
LPS6225-565ML_	5600	36.0	0.72	0.077	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<sub>rms</sub>, 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.

See Qualification Standards section for environmental and test data.

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

## Coilcraft®

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

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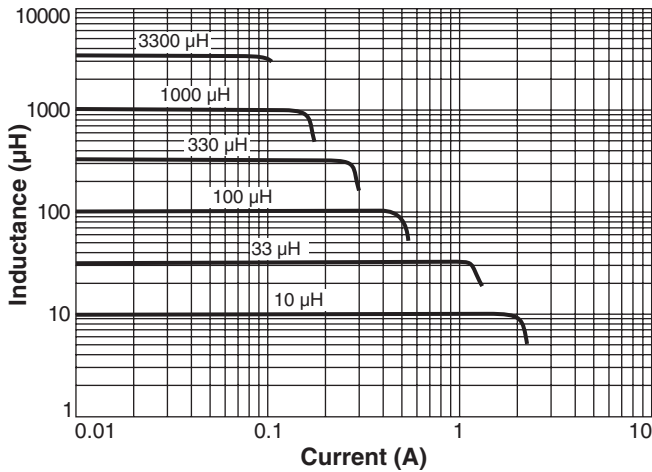
E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>



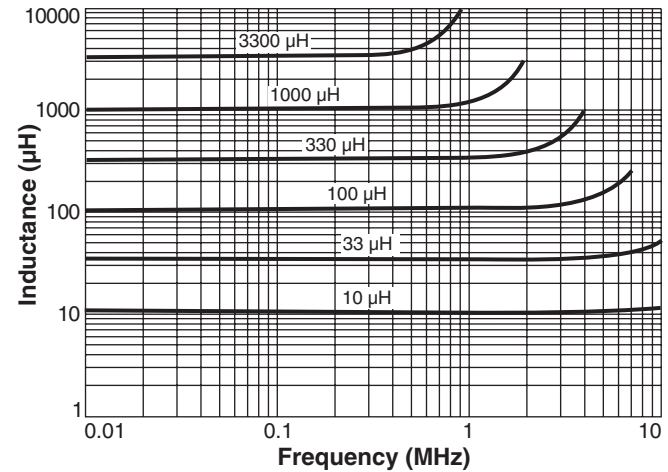
**NEW!**

# Shielded SMT Power Inductors – LPS6225 Series

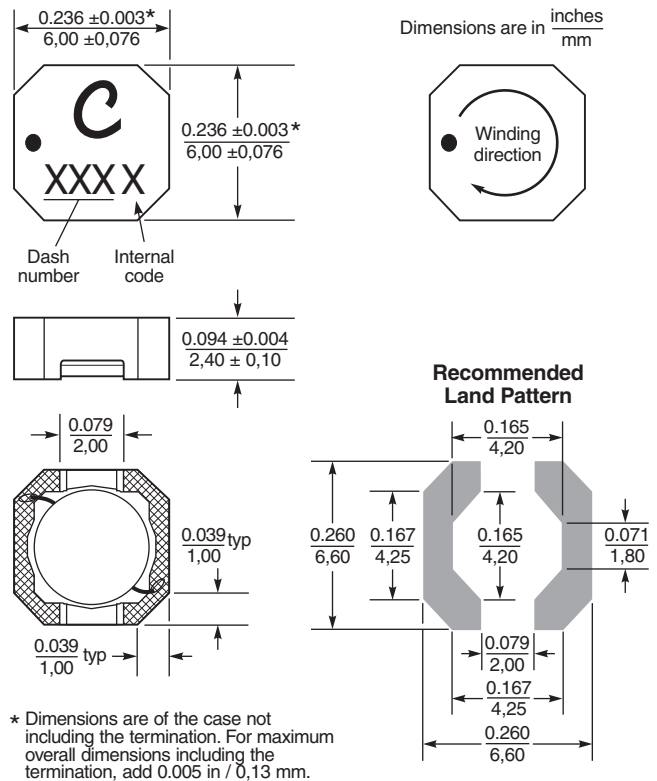
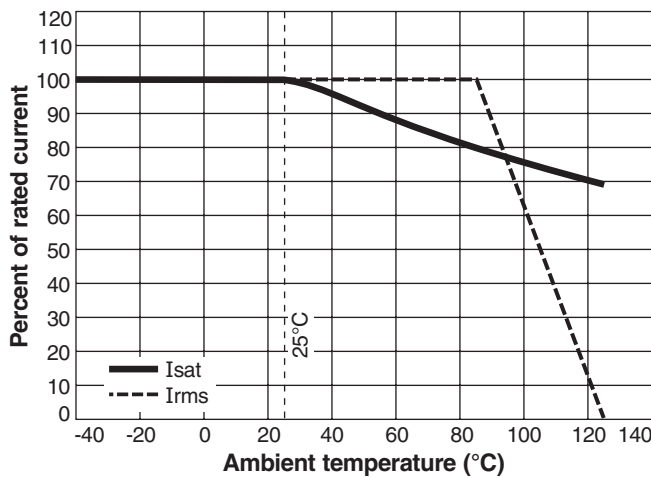
## Typical L vs Current



## 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.

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