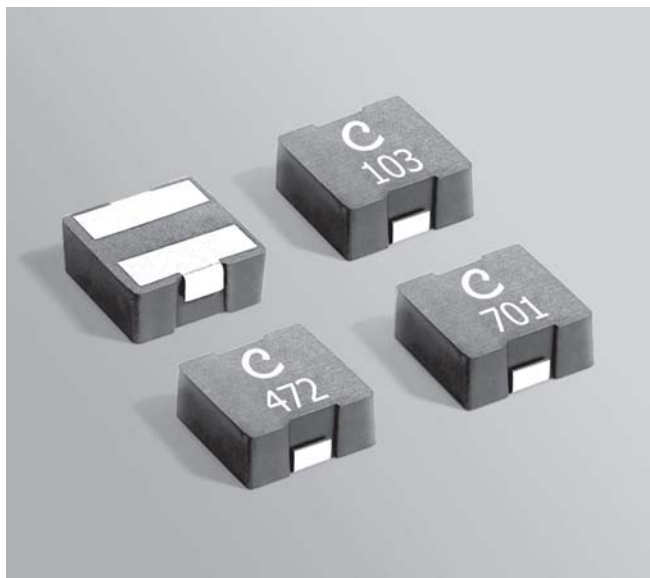


**NEW!**

Shielded Power Inductors – XPL7030



- Large terminations for excellent thermal management
- Soft saturation makes them ideal for VRM/VRD applications.
- XPL7030-102 specified by NSC in AN-1900 as L1
- XPL7030-682 specified by STMicro for the LED7707

Designer's Kit C430 contains 3 each of all values

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

Weight 0.74 g

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

Ambient temperature –40°C to +125°C. The part can be operated without damage as long as the part (ambient temperature plus temperature rise due to self heating) does not exceed +165°C

Storage temperature Component: –40°C to +165°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 400/7" reel; 1500/13" reel Plastic tape: 16 mm wide, 0.35 mm thick, 12 mm pocket spacing, 3.3 mm pocket depth

PCB washing Only pure water or alcohol recommended

Part number ¹	Inductance ² ±20%(μH)	DCR (mOhms) ³		SRF typ ⁴ (MHz)	Isat (A) ⁵		Irms (A) ⁶	
		typ	max		10% drop	20% drop	20°C rise	40°C rise
XPL7030-131ML_	0.13	1.94	2.13	241	40	57	23.8	31.3
XPL7030-281ML_	0.28	3.05	3.36	137	28	44	18.6	24.6
XPL7030-471ML_	0.47	4.18	4.59	83	22	34	16.6	21.6
XPL7030-701ML_	0.70	5.40	5.94	64	20	32	13.5	17.6
XPL7030-102ML_	1.0	6.70	7.37	50	19.0	29	12.0	16.4
XPL7030-122ML_	1.2	10.50	11.55	43	14.3	22.2	10.1	13.9
XPL7030-152ML_	1.5	12.10	13.31	40	13.2	20.2	9.2	12.3
XPL7030-182ML_	1.8	17.20	18.92	31	10.6	16.6	7.5	10.0
XPL7030-222ML_	2.2	19.31	21.24	29	10.5	16.0	7.1	9.7
XPL7030-272ML_	2.7	20.66	22.72	26	9.8	14.5	6.5	8.8
XPL7030-332ML_	3.3	25.15	27.66	22	9.0	14.0	5.8	8.5
XPL7030-472ML_	4.7	40.10	44.11	16	6.8	10.5	4.8	6.4
XPL7030-682ML_	6.8	58.50	64.35	13	5.8	9.4	4.0	5.2
XPL7030-822ML_	8.2	62.20	68.42	12	5.2	8.2	3.8	5.0
XPL7030-103ML_	10	88.30	97.13	11	4.4	7.2	3.2	4.4
XPL7030-223ML_	22	191.0	210.0	7.3	3.0	4.7	2.1	2.8

1. When ordering, please specify **packaging** code:

XPL7030-103MLC

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (400 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 (1500 parts per full reel).

2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.

3. DCR measured on a micro-ohmmeter.

4. SRF measured using Agilent/HP 4395A or equivalent.

5. DC current at which the inductance drops the specified amount 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.

Irms Testing

Irms testing was performed on 0.75 inch wide × 0.25 inch thick copper traces in still air.

Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions.

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

Document 568-1 Revised 10/15/09

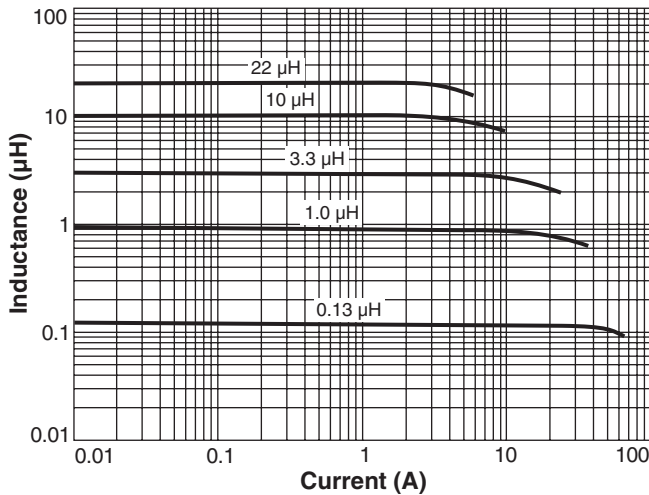
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

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

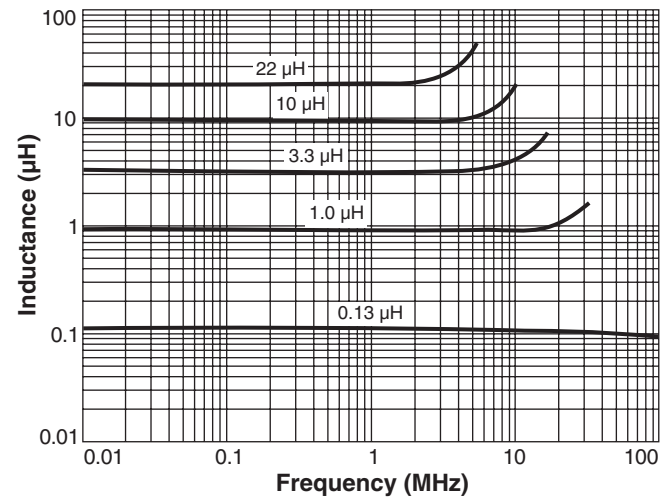
**NEW!**

SMT Power Inductors – XPL7030 Series

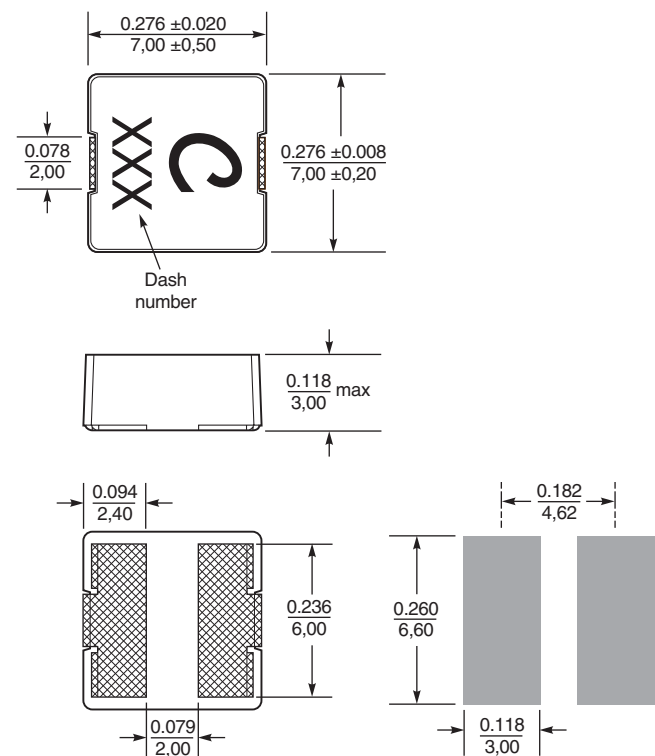
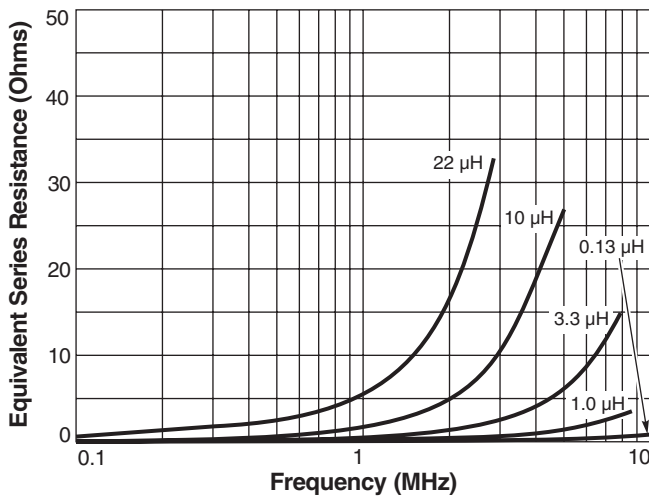
Typical L vs Current



Typical L vs Frequency



Typical ESR vs Frequency



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

**Recommended
Land Pattern**

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

Document 568-2 Revised 09/22/09

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