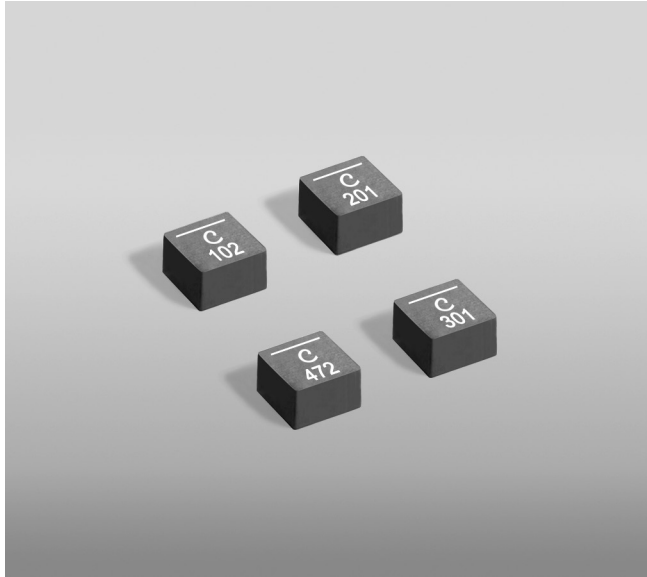


Shielded Power Inductors XEL4030



- Extremely low DCR and ultra low AC losses for high switching frequencies (2 to 5 MHz)
- AEC-Q200 qualified
- Superior current handling with soft saturation characteristics
- Can withstand high current spikes
- Designed for high temperature applications

Core material Composite

Environment RoHS compliant, halogen free

Terminations RoHS compliant tin-silver (96.5/3.5) over copper. Other terminations available at additional cost.

Weight 0.28 g

Operating voltage 80 V⁷

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

Maximum part temperature +165°C (ambient + temp rise).

Storage temperature Component: -55°C to +165°C.

Tape and reel 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)

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 (mOhms) ³		SRF typ ⁴ (MHz)	Isat ⁵ (A)	Irms (A) ⁶	
		typ	max			20°C rise	40°C rise
XEL4030-101ME_	0.10	1.50	1.80	240	30.0	20.4	25.8
XEL4030-201ME_	0.20	2.15	2.40	155	22.0	17.0	21.6
XEL4030-301ME_	0.30	2.80	3.10	115	19.0	14.9	18.9
XEL4030-471ME_	0.47	4.10	4.60	95	15.5	12.3	15.6
XEL4030-641ME_	0.64	5.30	5.90	80	13.5	10.9	13.7
XEL4030-901ME_	0.90	8.00	8.80	68	10.0	8.8	11.2
XEL4030-102ME_	1.0	8.89	9.78	65	9.0	8.4	10.7
XEL4030-122ME_	1.2	10.4	11.5	60	8.7	7.8	9.8
XEL4030-152ME_	1.5	15.1	16.6	58	8.5	6.4	8.1
XEL4030-222ME_	2.2	20.1	22.1	40	6.1	5.8	7.8
XEL4030-332ME_	3.3	26.1	28.6	35	5.9	5.0	6.6
XEL4030-472ME_	4.7	40.0	44.1	30	4.6	3.9	5.1
XEL4030-682ME_	6.8	67.4	74.1	20	3.6	3.0	3.9

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

XEL4030-682MEC

Termination: E = RoHS compliant tin-silver 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). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to C.

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

2. Inductance tested at 1 MHz, 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 25°C that causes an inductance drop of 30% (typ) from its value without current.

6. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. Temperature rise is highly dependent on many factors including pcb land pattern, trace size, air flow, and proximity to other components. Therefore temperature rise should be verified in application conditions.

7. Voltage capability varies by part number and in many cases may be higher than the listed voltage.

8. Electrical specifications at 25°C.

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



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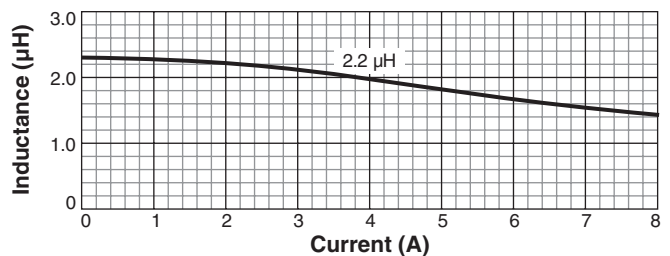
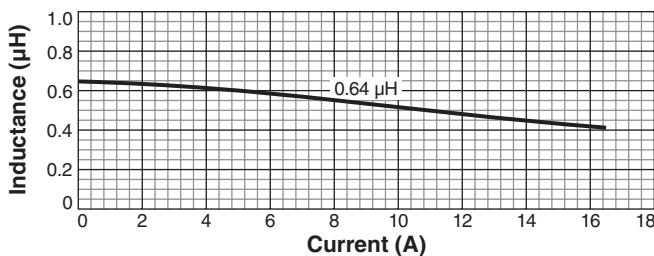
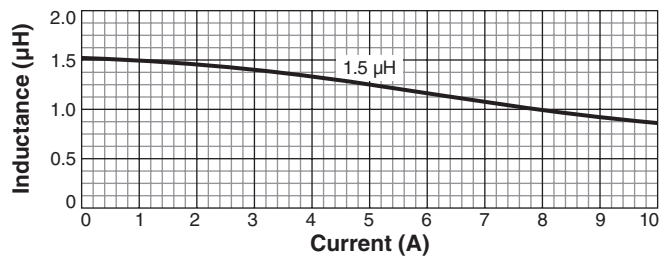
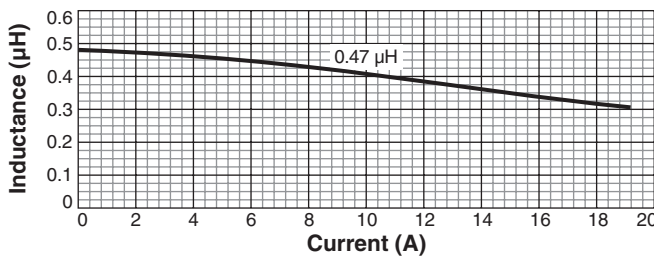
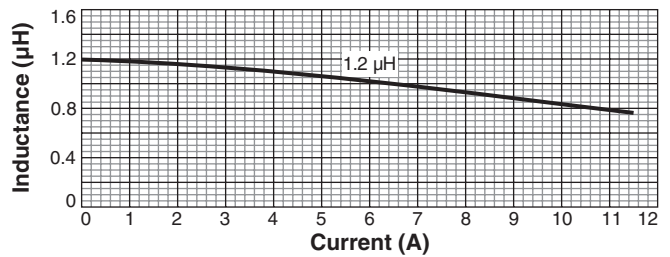
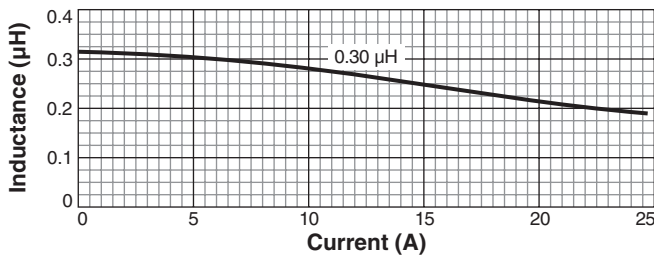
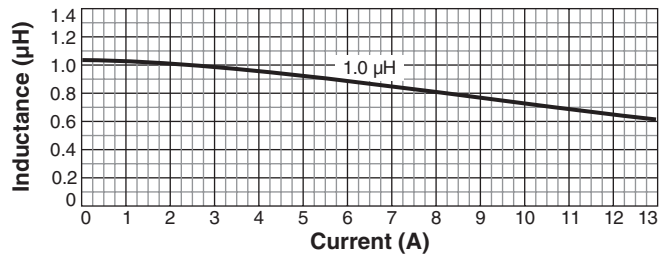
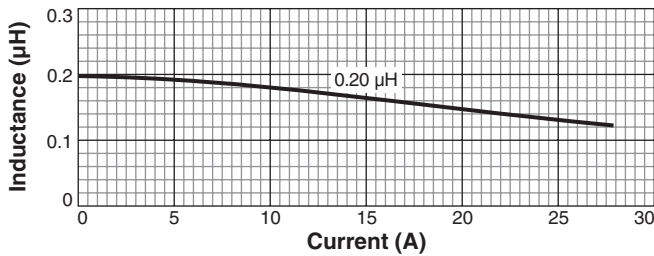
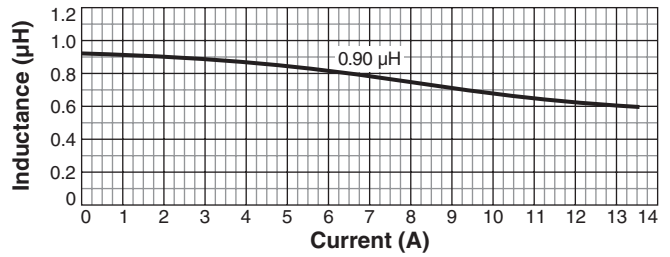
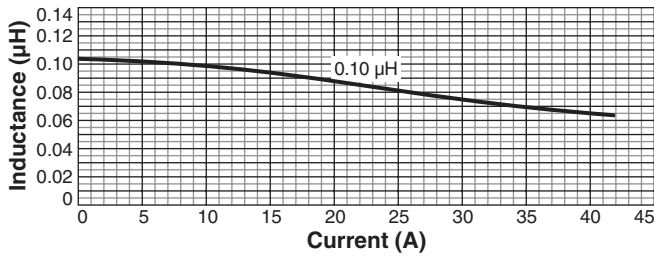
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**VERY LOW AC
AND DC LOSSES**



Shielded Power Inductors – XEL4030

L vs Current



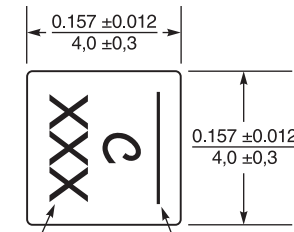
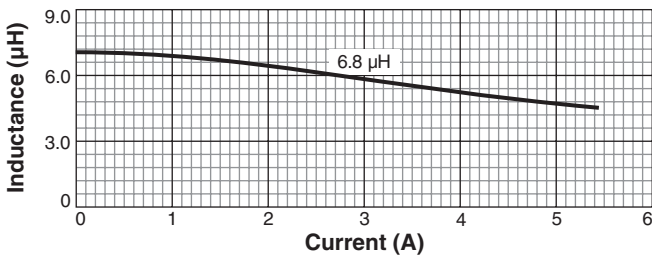
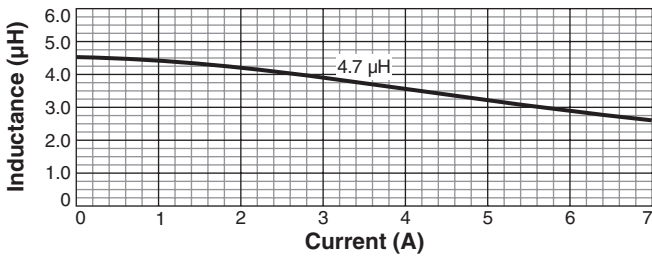
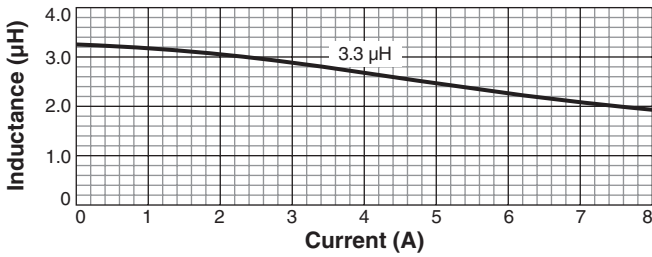
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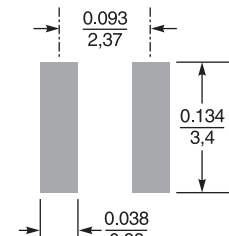
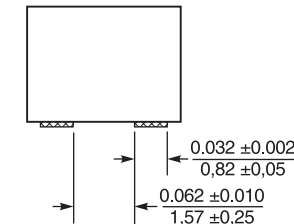
VERY LOW AC AND DC LOSSES

Shielded Power Inductors – XEL4030

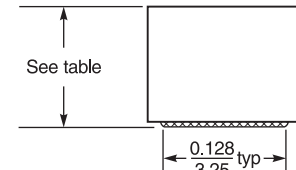
L vs Current



Dash number indicates direction of terminals and start (short) lead. Connect high dv/dt here for lowest EMI.



Recommended Land Pattern



Dash number	Height* max (in / mm)
-101	0.126 / 3.20
-201	0.126 / 3.20
-301	0.126 / 3.20
-471	0.122 / 3.10
-641	0.122 / 3.10
-901	0.122 / 3.10
-102	0.122 / 3.10
-122	0.122 / 3.10
-152	0.122 / 3.10
-222	0.122 / 3.10
-332	0.122 / 3.10
-472	0.122 / 3.10
-682	0.122 / 3.10

* For optional tin-lead and tin-silver-copper terminations, dimensions are for the mounted part. Dimensions before mounting can be an additional 0.005 inch / 0.13 mm.

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

Packaging 500/7" reel; 2000/13" reel Plastic tape: 12 mm wide, 0.23 mm thick, 8 mm pocket spacing, 3.25 mm pocket depth

Typical L vs Frequency

