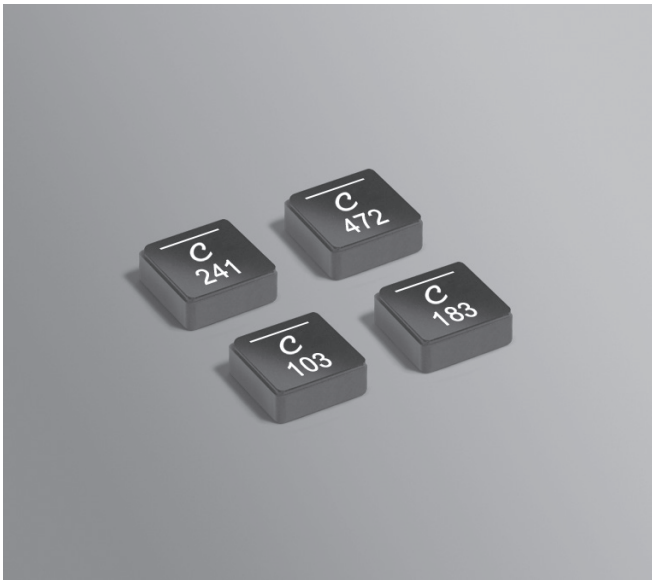
NEW!

Shielded Power Inductors – XGL7030

RoHS/ REACH COMPLIANT

Halogen Free

AEC Q200 +125°C



- Industry's lowest DCR & ultra low AC losses over a wide frequency range
- AEC-Q200 qualified
- Superior current handling with soft saturation characteristics
- Wide inductance range from 0.24 to 18 µH

Core material Composite
Core and winding loss See www.coilcraft.com/coreloss
Environmental RoHS compliant, halogen free
Terminations RoHS compliant tin-silver (96.5/3.5) over copper. Other terminations available at additional cost.
Weight: 1.03 – 1.10 g
Operating voltage: 0 – 80 V
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: –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] typ	DCR (mOhms)[3] max	SRF typ[4] (MHz)	Isat (A)[5] 10% drop	Isat (A)[5] 20% drop	Isat (A)[5] 30% drop	Irms (A)[6] 20°C rise	Irms (A)[6] 40°C rise
XGL7030-241ME_	0.24	1.1	1.3	90	19.0	32.0	46.0	26.0	37.2
XGL7030-471ME_	0.47	1.9	2.3	60	13.0	21.5	32.0	20.2	29.4
XGL7030-681ME_	0.68	2.5	3.0	45	10.5	18.0	27.0	19.0	26.0
XGL7030-102ME_	1.0	3.8	4.6	35	8.0	14.0	21.0	16.8	22.9
XGL7030-152ME_	1.5	5.3	6.4	30	6.7	11.8	17.6	14.0	19.3
XGL7030-222ME_	2.2	7.3	8.8	25	5.5	9.7	14.5	12.0	16.3
XGL7030-332ME_	3.3	10.4	12.5	20	4.8	8.2	12.0	10.2	13.8
XGL7030-472ME_	4.7	14.8	17.8	16	4.4	7.3	10.6	8.5	11.5
XGL7030-562ME_	5.6	18.7	22.4	14	4.0	6.5	9.4	7.5	10.2
XGL7030-682ME_	6.8	22.5	27.0	13	3.5	5.9	8.4	7.2	9.4
XGL7030-822ME_	8.2	27.3	32.8	12	3.1	5.2	7.7	6.5	8.5
XGL7030-103ME_	10	31.8	38.2	10	3.0	5.0	7.3	5.5	7.5
XGL7030-153ME_	15	45.4	54.5	9	2.2	3.9	5.7	4.6	6.3
XGL7030-183ME_	18	60.3	72.4	9	1.9	3.3	4.9	4.1	5.5

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

   XGL7030-183MEC

   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 (400 parts per 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 (1500 parts per reel). Factory order only, not stocked.
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 the specified inductance drop from its value without current.
   Click for temperature derating information.
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. Click for temperature derating information.
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.

SPICE models
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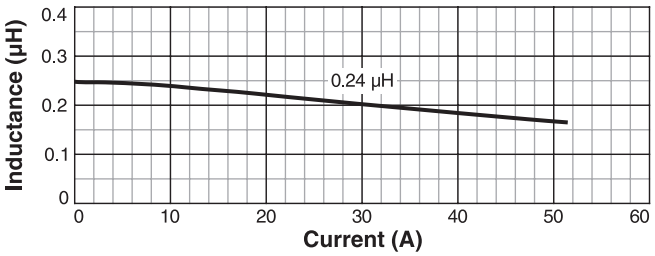
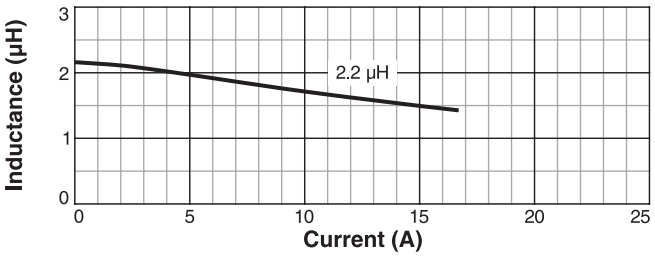
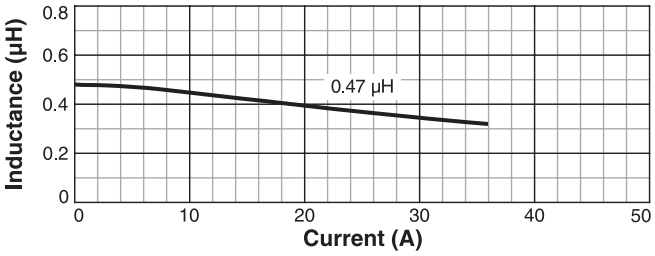
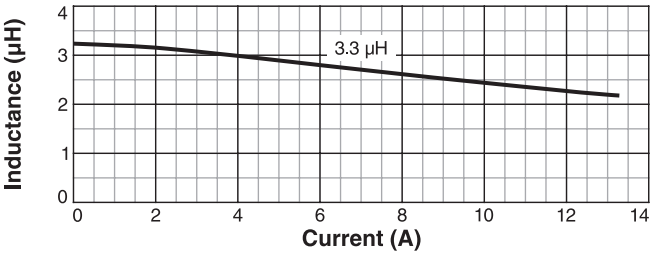
Shielded Power Inductors – XGL7030

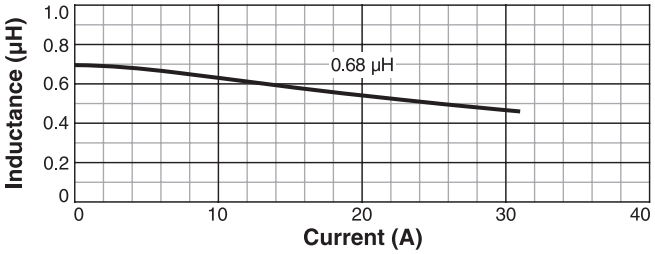
L vs Current

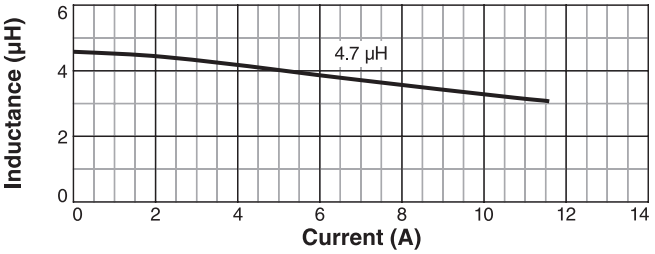


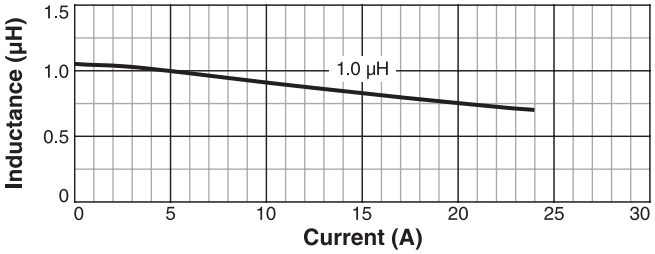


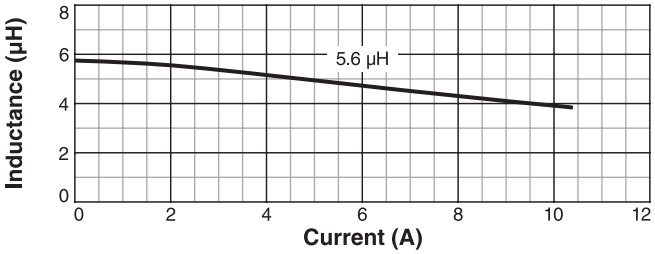


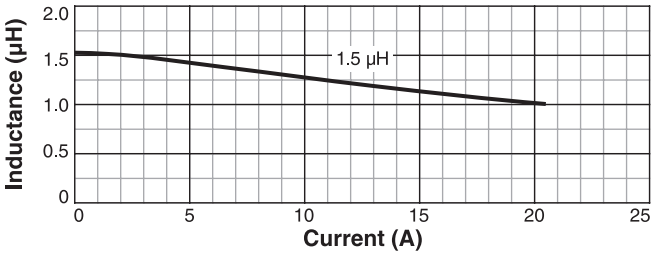


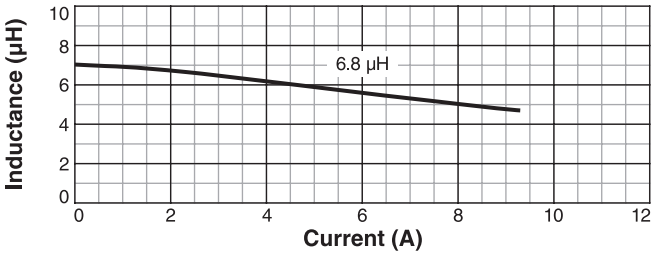












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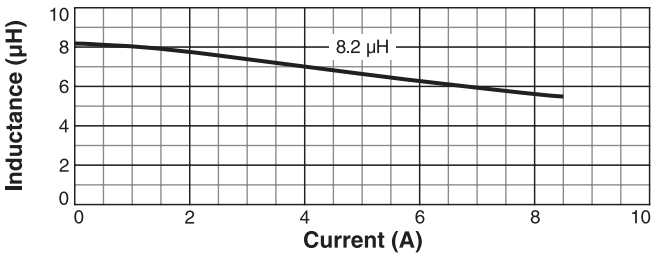
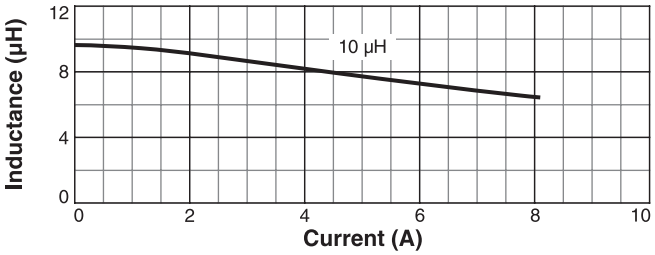
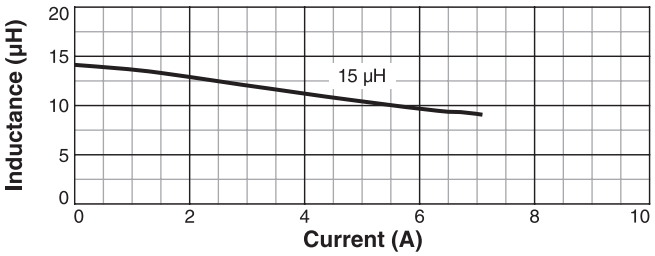
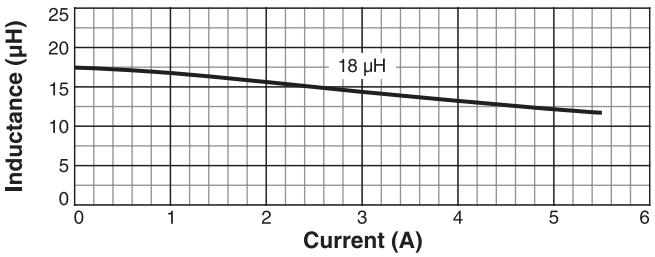
L vs Current

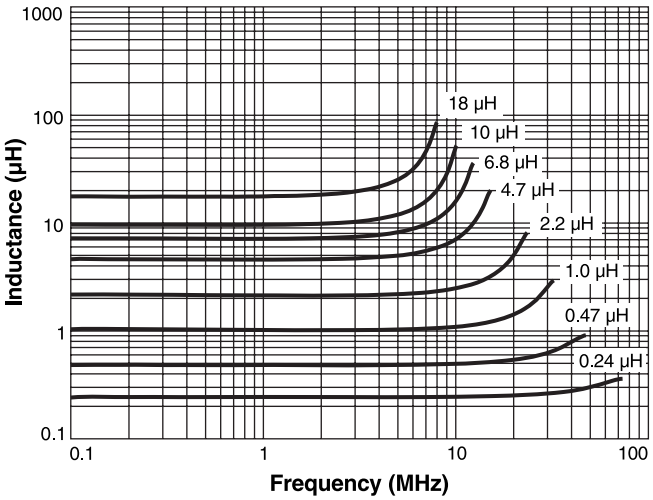


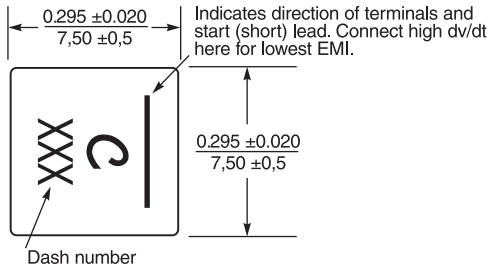


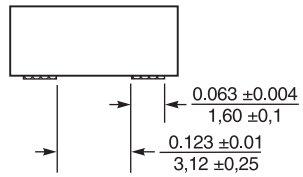


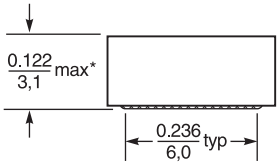


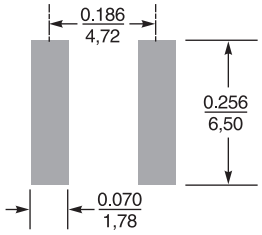
Typical L vs Frequency











Recommended Land Pattern

* 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 inches / mm

Packaging 400/7″ reel; 1500/13″ reel Plastic tape: 16 mm wide, 0.3 mm thick, 12 mm pocket spacing, 3.3 mm pocket depth

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