

XGL/XEL/XAL Lowest DCR and high current



Key	2.5	0.05
Isat (A)	DCR (mOhms)	

- Wide range of sizes and inductance values (up to size 1712 and 82 μH)
- Low inductance values for high-frequency applications (as low as 0.045 μH)
- Low AC losses at high-frequency range (2 to 10 MHz)
- Highest current handling (up to 117 A)
- Soft saturation characteristic to withstand high current spikes
- Very low DCR
- No thermal-aging issue
- Perfect for high temperature applications

- Find your required inductance in the far left column.
- Scan the row until you find the desired current rating (bold number); parts from there to the right meet your requirement.
- Read up to see the Coilcraft product series and dimensions.

	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size			
	XGL3014	XGL3512	XGL3515	XEL3515	XEL3520	XGL3520	XGL3530	XGL4012	XGL4015	XGL4018	XGL4020	XGL4025	XEL4020	XGL4040	XGL4030	XGL5020	XEL5020	XGL6020	XGL5030	XGL5050	XEL5030	XGL6030	XGL6060	XAL7050	XAL7070	XAL8080	XAL1030	XGL1060	XGL1010	XAL1350	XGL1313	XAL15xx	XGL1712					
Base (mm)	3.0 x 3.0	3.5 x 3.2	3.5 x 3.2	3.5 x 3.2	3.5 x 3.2	3.5 x 3.2	3.5 x 3.2	4.0 x 4.0	4.0 x 4.0	4.0 x 4.0	4.0 x 4.0	4.0 x 4.0	4.0 x 4.0	4.0 x 4.0	4.0 x 4.0	5.48 x 5.28	5.48 x 5.28	6.71 x 6.51	5.48 x 5.28	5.48 x 5.28	5.48 x 5.28	6.71 x 6.51	6.71 x 6.51	7.5 x 7.2	7.5 x 7.2	8.6 x 8.1	11.3 x 10.0	11.3 x 10.0	11.3 x 10.0	14.0 x 13.0	15.0 x 13.4	16.2 x 15.2	18.2 x 17.2					
Height (mm)	1.4	1.2	1.5	1.5	2	2	3	1.2	1.5	1.8	2.1	2.5	2.1-2.2	4.1	3.1	2.1	2.1-2.2	2.1	3.1-3.2	5.1	3.1-3.2	3.1	6.1	5	7	8	3.1	6	10	5	13	8.0-13.0	12					
Inductance																																						
0.045 μH											36.0	0.85									42.5	0.67																
0.055 μH																																						
0.08 μH	16.1	2.2	17.3	2.8																																		
0.09 μH		16.4	3.3	17.8	2.2																																	
0.10 μH	13.9	2.6	15.2	3.5	16.8	2.4																																
0.13 μH					12.5	4.80	13.8	3.50																														
0.16 μH				12.4	3.5																																	
0.22 μH	8.7	5.0	10.0	6.3	11.1	4.8	10.0	7.80	11.8	4.90	11.4	3.2	11.8	3.0	14.4	5.0	15.2	3.4	16.1	2.6																		
0.25 μH																																						
0.33 μH	7.4	7.3	7.8	10.8	8.7	6.4	8.0	11.8	8.7	8.00	9.7	4.1	9.1	4.0																								
0.40 μH			7.1	12.3																																		
0.45 μH				7.4	8.2																																	
0.47 μH	6.0	9.8					8.0	9.40																														
0.52 μH			6.4	15.5																																		
0.56 μH			6.6	10.2	6.5	21.5	7.3	14.50	6.9	7.9																												
0.60 μH			5.7	20.7																																		
0.65 μH	5.0	13.7																																				
0.68 μH			6.4	11.5																																		
0.74 μH																																						
0.82 μH	4.5	16.1	5.1	24.5	5.3	16.0																																
0.90 μH																																						
1.0 μH	4.1	19.0	4.5	28.0	4.9	18.5																																
1.2 μH	3.3	30.6	4.1	32.5	4.3	23.6																																
1.5 μH			3.9	31.5																																		
1.8 μH	3.0	38.1			3.3	36.1																																
2.2 μH			3.2	40.6																																		
2.7 μH																																						
3.3 μH																																						
4.7 μH																																						
5.6 μH																																						
6.8 μH																																						
8.2 μH																																						
10 μH																																						
12 μH																																						
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18 μH																																						
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47 μH																																						
56 μH																																						
68 μH																																						
82 μH																																						



XGL, XEL, XAL or XFL?

Making the Best Choice

Coilcraft offers four popular styles of high-performance molded power inductors, our XGL, XEL, XAL and XFL Families. They are mechanically rugged and magnetically shielded for use in high-density circuits. Each style offers unique performance benefits.

NEW! XGL

Lowest DCR & widest inductance range

- Lowest DCR
- Widest inductance range
- Highest Irms current rating
- Lowest power losses over wide frequency range (up to 10 MHz)
- Soft saturation characteristics to withstand high current spikes
- No thermal-aging issue and perfect for high-temperature applications

XEL/XAL

High current & high frequency

- Wide range of sizes and inductance values (up to size 1513 and 33 μ H)
- Low AC losses at high-frequency range (2 to 10 MHz)
- Soft saturation characteristics to withstand high current spikes
- Very low DCR
- No thermal-aging issue and perfect for high-temperature applications

XFL

Low DCR & lowest profile

- Low DCR
- Lowest profile
- Suitable for IoT / Wearables
- Offers low inductance values for high-frequency applications
- No thermal-aging issue



Part Number	L nom (μ H)	DCR typ (mOhms)	Isat (A) 30%
XGL4020	2.2	19.5	6.2
XEL4020	2.2	35.2	5.9
XFL4020	2.2	21.4	3.7

XFL Compact, ultra-low loss power inductors

Key	2.5	0.05
Isat (A)	DCR (mOhms)	

- Low DCR
- Suitable for IoT / Wearables
- Offers low inductance values for high-frequency applications
- Lowest profile
- No thermal-aging issue

- Find your required inductance in the far left column.
- Scan the row until you find the desired current rating (bold number); parts from there to the right meet your requirement.
- Read up to see the Coilcraft product series and dimensions.

	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size	Actual size
	XFL2005	XFL2006	XFL2010	XFL3010	XFL3012	XFL4020	XFL4030	XFL501x	XFL6012
	Shielded	Shielded	Shielded	Shielded	Shielded	Shielded	Shielded	Shielded	Shielded
Base (mm)	2.0 x 1.9	2.0 x 1.9	2.0 x 1.9	3.0 x 3.0	3.0 x 3.0	4.0 x 4.0	4.0 x 4.0	5.48 x 5.28	6.56 x 6.36
Height (mm)	0.5	0.6	1	1.1	1.3	2.1	3.1	1.5 - 1.8	1.2
Inductance									
0.04 μ H			8.60 12						
0.12 μ H			4.90 17			13.7 1.45			
0.15 μ H	1.90 85								14.3 7.06
0.22 μ H	1.50 111		3.75 20			10.2 2.45		13.3 4.20	
0.33 μ H	1.30 144		3.05 28		3.4 23	7.8 3.20			
0.42 μ H								10.1 6.25	11.2 10.5
0.47 μ H	1.20 177					7.5 4.40	5.2 3.6		
0.56 μ H			2.32 47	2.7 30	2.9 28	6.3 5.53			10.4 13.5
0.68 μ H	0.95 215				2.7 34			8.5 8.25	
0.82 μ H			1.95 52						9.3 18.0
1.0 μ H	0.76 377	1.2 153	1.68 72	2.4 43	2.3 39	5.4 10.80	4.1 5.5		8.0 21.9
1.2 μ H								6.1 15.1	
1.5 μ H	0.70 483		1.45 100	1.9 71	2.2 60	4.6 14.40		5.8 18.3	
2.2 μ H	0.56 674	0.78 278	1.25 136	1.5 111	1.6 81	3.7 21.35	3.0 9.5	4.5 21.3	
3.3 μ H	0.50 922	0.66 460	1.00 185	1.3 154	1.4 106	2.9 34.80	2.2 17.0	3.4 32.0	
4.7 μ H	0.40 1460	0.52 665	0.78 278	1.1 217	1.2 143	2.7 52.20	2.1 25.0		
5.6 μ H	0.33 1720	0.50 750							
6.8 μ H	0.32 1920	0.41 920	0.72 352	0.92 315	0.97 166				
8.2 μ H	0.25 2460	0.39 1080	0.62 445						
10 μ H	0.24 2780	0.37 1270	0.56 517	0.71 472	0.74 255				
15 μ H		0.29 2020		0.53 521	0.65 394				
18 μ H			0.435 1020						
22 μ H		0.240 2780	0.340 1300	0.40 770	0.52 608				
33 μ H		0.180 4450	0.285 1860	0.35 1120	0.38 855				
39 μ H				0.33 1230	0.37 919				
47 μ H		0.155 5600	0.250 2530	0.27 1710	0.32 1220				
56 μ H		0.145 6650	0.215 3180	0.25 1950	0.30 1430				
68 μ H		0.135 8500	0.210 3460	0.24 2320	0.25 2160				
82 μ H		0.115 9250	0.185 5050	0.23 2770	0.24 2300				
100 μ H		0.115 11100	0.172 6070	0.22 4640	0.28 2630				
220 μ H			0.113 11880	0.14 9910	0.16 6830				