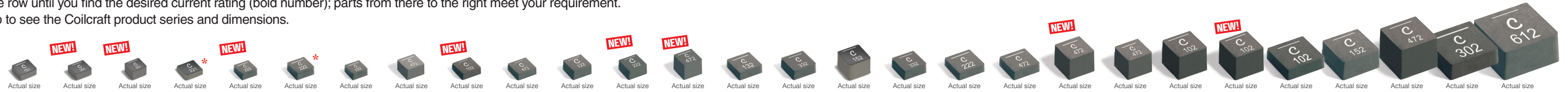


Key

2.5	0.05
I _{sat} (A)	DCR (mOhms)

- Wide range of sizes and inductance values (up to size 1580 and 33 μ H)
- Low inductance values for high-frequency applications (as low as 0.072 μ H)
- Low AC losses at high-frequency range (2 to 10 MHz)
- Highest current handling (up to 111 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.



	XEL3515	XEL3520	XEL3530	XEL401x	XGL4020	XEL4020	XAL40xx	XEL4030	XEL5020	XAL5020	XAL50xx	XEL5030	XEL5050	XAL6020	XEL6030	XEL6060	XAL60xx	XAL7020	XAL7030	XAL7050	XAL7070	XAL8080	XAL8050	XAL1030	XAL1060	XAL1010	XAL1350	XAL15xx	
Base (mm)	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	5.48 x 5.28	5.48 x 5.28	5.48 x 5.28	5.48 x 5.28	5.48 x 5.28	6.56 x 6.36	6.56 x 6.36	6.56 x 6.36	6.56 x 6.36	7.5 x 7.5	7.5 x 7.5	7.5 x 7.2	7.5 x 7.2	8.6 x 8.1	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	16.2 x 15.2	
Height (mm)	1.5	2.0	3	1.2-1.4	2.1	2.1	2.1-4.1	3.1-3.2	2.1-2.2	2	3.1-5.1	3.1-3.2	5.1-5.3	2.1	3.1	6.1	3.1-6.1	2	3.1	5	7	8	5	3.1	6	10	5	8.0-13.0	
Inductance																													
0.072 μ H	16.0 2.9	18.5 2.45																											
0.10 μ H					24.0 5.2																								
0.12 μ H		13.8 3.50																											
0.16 μ H	12.5 4.8																												
0.22 μ H	10.0 7.8	11.8 4.90	10.6 4.20	16.0 9.7																								98.8 0.5	
0.27 μ H																													
0.30 μ H			9.2 5.20																										
0.33 μ H		8.7 8.00		14.6 9.9	15.2 3.0	15.7 5.2																							
0.35 μ H	8.0 11.8																												
0.40 μ H			8.3 6.10																								82.0 0.8		111 0.5
0.47 μ H		8.0 9.44	7.9 7.20																									70.5 0.7	
0.56 μ H	6.5 21.5	7.3 14.5		11.6 16.5		11.3 8.0																					44.0 2.5		
0.60 μ H						11.7 5.1		10.4 9.5	13.5 5.3																			74.0 1.5	
0.68 μ H			6.2 10.3																								52.0 1.4	62.0 0.9	
0.78 μ H		5.6 20.5		9.8 20.3	9.4 7.7																								86.0 0.7
0.90 μ H			5.9 12.7																									60.0 2.0	
1.0 μ H						8.8 8.2	9.0 13.3	8.7 13.3	9.0 8.9	12.4 12.6																	35.0 4.5	55.0 1.0	73.5 0.9
1.1 μ H		5.0 31.5																											
1.2 μ H		4.8 35.0	5.2 17.8					8.1 17.8	7.9 17.8	8.7 10.4																	43.0 2.5	56.0 2.5	65.0 1.2
1.5 μ H								7.5 13.0	7.4 21.5	7.1 21.5	8.5 15.1															36.0 3.0	36.6 1.6		
1.8 μ H																													57.0 1.6
2.2 μ H																													
2.7 μ H																													
3.3 μ H																													
4.7 μ H																													
5.6 μ H																													
6.8 μ H																													
8.2 μ H																													
10 μ H																													
12 μ H																													
15 μ H																													
22 μ H																													
33 μ H																													
47 μ H																													

For free evaluation samples or more information, visit www.coilcraft.com or call 800-322-2645.

*High voltage version available



XFL Compact, ultra-low loss power inductors

Key

2.5	0.05
Isat (A)	DCR (mOhms)

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

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

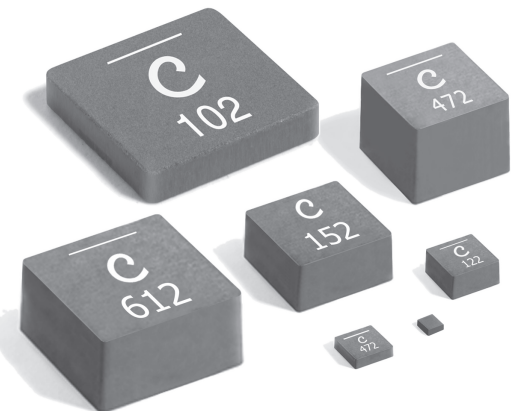
High current & high frequency

- Wide range of sizes and inductance values (up to size 1580 and 33 μ H)
- Low inductance values for high-frequency applications (as low as 0.072 μ H)
- Low AC losses at high-frequency range (2 to 10 MHz)
- Highest current handling
- 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
XAL4020	2.2	35.2	5.6
XFL4020	2.2	21.4	3.7

	Actual size		Actual size		Actual size		Actual size		Actual size		Actual size		Actual size		Actual size		Actual size			
	XFL20xx Shielded		XFL3010 Shielded		XFL3012 Shielded		XFL40xx Shielded		XFL4030 Shielded		XFL501x Shielded		XFL5030 Shielded		XFL6012 Shielded		XFL7015 Shielded		Base (mm)	
	2.0 x 2.0	3.0 x 3.0	3.0 x 3.0	4.0 x 4.0	4.0 x 4.0	5.5 x 5.3	5.48 x 5.28	6.56 x 6.36	7.5 x 7.5										Height (mm)	
	0.5-0.6	1.0	1.2	1.2-2.1	3.1	1.5-1.8	3.1	1.2	1.5										Height (mm)	
Inductance																			Inductance	
0.27 μ H	1.5	111				9.7	8				13.3	4.2	11.5	2.15	14.3	7	14.5	3.9	0.27 μ H	
0.33 μ H	1.3	144			3.4	23	7.5	7											0.33 μ H	
0.42 μ H											10.1	6.3			11.2	11			0.42 μ H	
0.47 μ H	1.2	177				6.7	14	5.2	3.6										0.47 μ H	
0.56 μ H					2.9	28	6.5	18					9.0	3.2	10.4	14			0.56 μ H	
0.68 μ H	0.95	215	2.7	30	2.7	34	6.3	10			8.5	8.3						10.0	7.7	0.68 μ H
0.78 μ H															9.3	18			0.78 μ H	
1.0 μ H	1.2	153	2.4	43	2.3	39	5.4	11	4.1	5.5			6.5	4.2	8.0	22	7.4	13.6	1.0 μ H	
1.2 μ H							4.5	19			6.1	15.1							1.2 μ H	
1.5 μ H	0.7	483	1.9	71	2.2	60	4.6	14			5.8	18.3						6.6	18.3	1.5 μ H
1.8 μ H																				1.8 μ H
2.2 μ H	0.78	278	1.5	111	1.6	81	3.7	21	3.0	9.5	4.5	21.3	4.3	10.5						2.2 μ H
2.7 μ H																				2.7 μ H
3.3 μ H	0.66	460	1.3	154	1.4	106	2.9	35	2.2	17	3.4	32.0	4.2	13.5						3.3 μ H
3.9 μ H																				3.9 μ H
4.7 μ H	0.52	665	1.1	217	1.2	143	2.7	52	2.1	25			3.3	18.5						4.7 μ H
5.6 μ H	0.50	750																		5.6 μ H
6.8 μ H	0.41	920	0.92	315	0.97	166														6.8 μ H
8.2 μ H	0.39	1080																		8.2 μ H
10 μ H	0.37	1270	0.71	472	0.74	255														10 μ H
12 μ H																				12 μ H
15 μ H	0.29	2020	0.53	521	0.65	394														15 μ H
18 μ H																				18 μ H
22 μ H	0.24	2780	0.40	770	0.52	608														22 μ H
27 μ H																				27 μ H
33 μ H	0.18	4450	0.35	1120	0.38	855														33 μ H
39 μ H			0.33	1230	0.37	919														39 μ H
47 μ H	0.155	5600	0.27	1710	0.32	1220														47 μ H
56 μ H	0.145	6650	0.25	1950	0.30	1430														56 μ H
68 μ H	0.135	8500	0.24	2320	0.25	2160														68 μ H
82 μ H	0.115	9250	0.23	2770	0.24	2300														82 μ H
100 μ H	0.115	11100	0.22	4640	0.28	2630														100 μ H
120 μ H																				120 μ H
150 μ H																				150 μ H
180 μ H																				180 μ H
220 μ H			0.14	9910	0.16	6830														220 μ H

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