

Coilcraft®



***Magnetics
for RF, power,
filter and data
applications***

www.coilcraft.com

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Featured Products

XEL40xx High Frequency Power Inductors

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- Low inductance values optimized for high frequency operation
- Extremely low DCR and ultra-low AC losses for high switching frequencies (2 to 5+ MHz)
- Superior current handling with soft saturation characteristics
- Measures just 4 mm² with profiles as low as 1.2 mm

0805USBN Low Profile Common Mode Chokes

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- Up to 6.5 GHz differential mode 3 dB cutoff frequency and 35 dB common mode noise attenuation in GHz range
- Ideal for noise suppression in super high speed signal lines: USB 3.x, HDMI 2.0, HDBaseT™, etc.
- Suitable for USB-type C specification 1.0

AGP Family High Temperature Power Inductors

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- Flat wire construction results in extremely low DC and AC resistance for greater efficiency
- Current ratings as high as 108 Amps
- AEC-Q200 Grade 1 qualified – ambient temperature ratings up to 140°C
- Suitable for automotive and other harsh-environment applications

SLR Family High Current Power Inductors

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- Excellent current handling, up to 100 Amps
- Inductance range from 85 to 370 nH for high frequency applications
- Tight DCR tolerance (±5.4% to ±10%) for lossless inductor DCR-based current sensing
- Footprints as small as 7.0 × 10.2 mm

CST7030 Series SMT Current Sense Transformers

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- Sense up to 20 Amps of current up to 1 MHz
- Measures just 5.2 × 7.0 mm, with a maximum height of 3.0 mm
- Very low primary DC resistance (0.0015 Ohms)
- 500 Vrms, one minute isolation (hipot) between windings
- Qualified to AEC-Q200 Grade 1

Throughout the catalog products that have passed AEC-Q200 qualification testing are identified with these icons.





Chip Inductors

S-parameters & SPICE models
Available on our web site

Coilcraft chip inductors cover the range from 0.5 nH to 1,000 µH. All except the AF, DF and LS Series are wound on ceramic bodies and offer exceptionally high SRFs, high Q and tight tolerances. Many parts are available with inductance tolerances as low as 1% at only a small premium. Coilcraft offers **Designer's Kits** that contain samples for prototyping. See page 55 or order on-line at <http://www.coilcraft.com/kits>.

0201DS (0603)

Part number	Inductance (nH)	Percent tolerance	SRF typ (GHz)	DCR max (Ohms)	Irms (mA)	1.7 GHz L typ	1.7 GHz Q typ
0201DS-0N5XKEW	0.5 @ 250 MHz	10	23.5	0.020	1250	0.49	43
0201DS-0N6XKEW	0.6 @ 250 MHz	10	24.5	0.030	1000	0.58	51
0201DS-1N2XJEW	1.2 @ 250 MHz	5	17.9	0.042	870	1.16	60
0201DS-1N3XJEW	1.3 @ 250 MHz	5	17.6	0.048	820	1.24	57
0201DS-1N4XJEW	1.4 @ 250 MHz	5	17.0	0.080	630	1.34	37
0201DS-1N5XJEW	1.5 @ 250 MHz	5	17.0	0.090	600	1.47	40
0201DS-2N2XJEW	2.2 @ 250 MHz	5	16.7	0.070	700	2.23	32
0201DS-2N3XJEW	2.3 @ 250 MHz	5	16.5	0.070	670	2.28	64
0201DS-2N4XJEW	2.4 @ 250 MHz	5	13.0	0.082	620	2.36	53
0201DS-2N5XJEW	2.5 @ 250 MHz	5	12.5	0.165	440	2.49	44
0201DS-3N3XJEW	3.3 @ 250 MHz	5	12.8	0.080	630	3.32	62
0201DS-3N4XJEW	3.4 @ 250 MHz	5	12.7	0.080	630	3.42	62
0201DS-3N5XJEW	3.5 @ 250 MHz	5	12.4	0.080	630	3.45	64
0201DS-3N6XJEW	3.6 @ 250 MHz	5	12.5	0.105	550	3.57	61
0201DS-3N7XJEW	3.7 @ 250 MHz	5	10.6	0.105	550	3.66	58
0201DS-3N8XJEW	3.8 @ 250 MHz	5	10.2	0.180	420	3.81	60
0201DS-3N9XJEW	3.9 @ 250 MHz	5	11.2	0.240	360	3.89	50
0201DS-4N8XJEW	4.8 @ 250 MHz	5	11.0	0.096	570	4.83	50
0201DS-4N9XJEW	4.9 @ 250 MHz	5	11.7	0.130	510	4.71	52
0201DS-5N0XJEW	5.0 @ 250 MHz	5	11.5	0.130	510	4.90	54
0201DS-5N1XJEW	5.1 @ 250 MHz	5	11.1	0.130	510	4.96	54
0201DS-5N2XJEW	5.2 @ 250 MHz	5	10.0	0.170	430	5.21	55
0201DS-5N3XJEW	5.3 @ 250 MHz	5	10.6	0.130	510	5.15	57
0201DS-5N4XJEW	5.4 @ 250 MHz	5	10.2	0.130	510	5.31	56
0201DS-5N5XJEW	5.5 @ 250 MHz	5	9.5	0.285	330	5.49	50
0201DS-6N7XJEW	6.7 @ 250 MHz	5	6.8	0.150	460	6.72	59
0201DS-6N8XJEW	6.8 @ 250 MHz	5	9.5	1.150	460	6.52	52
0201DS-6N9XJEW	6.9 @ 250 MHz	5	9.3	0.150	460	6.73	54
0201DS-7N0XJEW	7.0 @ 250 MHz	5	6.7	0.210	390	6.97	60
0201DS-7N1XJEW	7.1 @ 250 MHz	5	9.5	0.250	390	6.90	54
0201DS-7N2XJEW	7.2 @ 250 MHz	5	9.4	0.250	390	6.97	55
0201DS-7N3XJEW	7.3 @ 250 MHz	5	9.3	0.250	390	7.04	56
0201DS-7N4XJEW	7.4 @ 250 MHz	5	9.1	0.250	390	7.30	61
0201DS-7N5XJEW	7.5 @ 250 MHz	5	6.8	0.340	300	7.46	50
0201DS-7N6XJEW	7.6 @ 250 MHz	5	9.3	0.300	340	7.31	59
0201DS-7N7XJEW	7.7 @ 250 MHz	5	9.2	0.300	340	7.37	60
0201DS-7N8XJEW	7.8 @ 250 MHz	5	9.2	0.300	340	7.49	58
0201DS-7N9XJEW	7.9 @ 250 MHz	5	9.1	0.300	340	7.56	58
0201DS-8N0XJEW	8.0 @ 250 MHz	5	9.2	0.300	340	7.68	53
0201DS-8N1XJEW	8.1 @ 250 MHz	5	9.1	0.300	340	7.75	59
0201DS-8N2XJEW	8.2 @ 250 MHz	5	6.4	0.270	340	8.22	53
0201DS-8N3XJEW	8.3 @ 250 MHz	5	8.9	0.300	340	7.95	57
0201DS-8N4XJEW	8.4 @ 250 MHz	5	8.9	0.350	300	8.04	55
0201DS-8N5XJEW	8.5 @ 250 MHz	5	8.9	0.350	300	8.13	55
0201DS-8N7XJEW	8.7 @ 250 MHz	5	6.3	0.350	300	8.74	59
0201DS-9N0XJEW	9.0 @ 250 MHz	5	6.4	0.350	300	9.04	63
0201DS-9N4XJEW	9.4 @ 250 MHz	5	6.4	0.400	280	9.39	51
0201DS-9N6XJEW	9.6 @ 250 MHz	5	6.2	0.400	280	9.64	53
0201DS-11N1XJEW	11.0 @ 250 MHz	5	5.7	0.400	280	11.15	62
0201DS-12N1XJEW	12.0 @ 250 MHz	5	5.6	0.360	300	12.20	56
0201DS-13N1XJEW	13.0 @ 250 MHz	5	6.7	0.440	270	13.22	52
0201DS-14N1XJEW	14.0 @ 250 MHz	5	5.1	0.440	270	14.37	51

Which chip inductor family should you use?

Highest Q	Suffix: HP Body sizes: 0402, 0603	HQ 0403 - 1008	CS 0402 - 1812	DS 0201
Lowest DCR	Suffix: HP Body sizes: 0402, 0603	AF 0402 - 1008	LS 0603 - 1812	
Highest SRF	Suffix: HP Body sizes: 0402, 0603	CS 0402 - 1812	DS 0201	
Highest current	Suffix: HP Body sizes: 0402, 0603	LS 0603 - 1812	AF 0402 - 1008	PA 0402 HC 0603

0302CS (0805)

Part number	Inductance (nH)	Percent tolerance	SRF typ (GHz)	DCR max (Ohms)	Irms (mA)	1.7 GHz L typ	1.7 GHz Q typ
0302CS-N67XKEW	0.67 @ 250 MHz	10	>26	0.021	1600	0.66	56
0302CS-1N7XJEW	1.7 @ 250 MHz	5	16.14	0.038	1140	1.7	78
0302CS-1N9XJEW	1.9 @ 250 MHz	5	16.06	0.065	910	1.9	65
0302CS-2N1XJEW	2.1 @ 250 MHz	5	15.94	0.082	830	2.1	57
0302CS-3N0XJEW	3.0 @ 250 MHz	5	15.10	0.060	950	3.0	92
0302CS-3N3XJEW	3.3 @ 250 MHz	5	11.50	0.060	950	3.3	88
0302CS-3N5XJEW	3.5 @ 250 MHz	5	11.53	0.070	870	3.5	84
0302CS-3N8XJEW	3.8 @ 250 MHz	5	10.67	0.090	830	3.8	89
0302CS-4N0XJEW	4.0 @ 250 MHz	5	11.21	0.100	760	4.0	80
0302CS-4N7XJEW	4.7 @ 250 MHz	5	12.07	0.074	830	4.6	88
0302CS-5N1XJEW	5.1 @ 250 MHz	5	9.65	0.074	830	5.1	92
0302CS-5N6XJEW	5.6 @ 250 MHz	5	6.40	0.120	730	5.5	71
0302CS-6N0XJEW	6.0 @ 250 MHz	5	8.60	0.140	700	6.0	82
0302CS-6N3XJEW	6.3 @ 250 MHz	5	9.34	0.155	620	6.3	80
0302CS-6N5XJEW	6.5 @ 250 MHz	5	8.19	0.200	620	6.5	80
0302CS-7N0XJEW	7.0 @ 250 MHz	5	8.50	0.103	760	7.1	84
0302CS-7N2XJEW	7.2 @ 250 MHz	5	9.12	0.112	690	7.2	82
0302CS-7N4XJEW	7.4 @ 250 MHz	5	7.98	0.112	690	7.4	82
0302CS-8N3XJEW	8.3 @ 250 MHz	5	8.19	0.150	590	8.3	80
0302CS-9N2XJEW	9.2 @ 250 MHz	5	7.92	0.115	690	7.92	83
0302CS-10N1XJEW	10.0 @ 250 MHz	5	7.45	0.140	620	7.45	91
0302CS-11N1XJEW	11.0 @ 250 MHz	5	6.85	0.210	590	6.85	83
0302CS-12N1XJEW	12.0 @ 250 MHz	5	6.86	0.170	560	6.86	88
0302CS-13N1XJEW	13.0 @ 250 MHz	5	6.94	0.230	480	6.94	83
0302CS-15N1XJEW	15.0 @ 250 MHz	5	6.20	0.174	560	6.20	84
0302CS-16N1XJEW	16.0 @ 250 MHz	5	6.13	0.210	480	6.13	85
0302CS-17N1XJEW	17.0 @ 250 MHz	5	6.26	0.280	440	6.26	82
0302CS-18N1XJEW	18.0 @ 250 MHz	5	6.03	0.350	390	6.03	80
0302CS-19N1XJEW	19.0 @ 250 MHz	5	5.79	0.260	480	5.79	85
0302CS-20N1XJEW	20.0 @ 250 MHz	5	5.68	0.300	430	5.68	88
0302CS-21N1XJEW	21.0 @ 250 MHz	5	5.16	0.370	370	5.16	82
0302CS-22N1XJEW	22.0 @ 250 MHz	5	4.95	0.420	340	4.95	79
0302CS-23N1XJEW	23.5 @ 250 MHz	5	5.18	0.400	430	5.18	84
0302CS-29N1XJEW	29.0 @ 250 MHz	5	4.83	0.470	330	4.83	75
0302CS-34N1XJEW	34.0 @ 250 MHz	5	4.45	0.530	310	4.45	78

0402AF (1005) High L Ferrite

Part number	Inductance (nH)	Percent tolerance	SRF typ (GHz)	DCR max (Ohms)	Irms (mA)
0402AF-200XJLW	20 @ 7.9 MHz	5	2.60	0.050	1600
0402AF-220XJLW	22 @ 7.9 MHz	5	2.50	0.065	1300
0402AF-330XJLW	33 @ 7.9 MHz	5	2.30	0.060	1400
0402AF-360XJLW	36 @ 7.9 MHz	5	2.30	0.075	1300
0402AF-390XJLW	39 @ 7.9 MHz	5	2.20	0.115	830
0402AF-510XJLW	51 @ 7.9 MHz	5	1.93	0.070	1100
0402AF-560XJLW	56 @ 7.9 MHz	5	1.90	0.095	1000
0402AF-720XJLW	72 @ 7.9 MHz	5	1.65	0.100	1000
0402AF-780XJLW	78 @ 7.9 MHz	5	1.60	0.130	970
0402AF-101XJLW	100 @ 7.9 MHz	5	1.40	0.160	900
0402AF-141XJLW	140 @ 7.9 MHz	5	1.22	0.260	630
0402AF-181XJLW	180 @ 7.9 MHz	5	1.15	0.280	560
0402AF-201XJLW	200 @ 7.9 MHz	5	1.00	0.440	400
0402AF-221XJLW	220 @ 7.9 MHz	5	1.15	0.530	380
0402AF-251XJLW	250 @ 7.9 MHz	5	0.90	0.360	520
0402AF-271XJLW	270 @ 7.9 MHz	5	0.86	0.550	360
0402AF-301XJLW	300 @ 7.9 MHz	5	0.86	0.410	420
0402AF-331XJLW	330 @ 7.9 MHz	5	0.82	0.560	350
0402AF-361XJLW	360 @ 7.9 MHz	5	0.81	0.575	360
0402AF-391XJLW	390 @ 7.9 MHz	5	0.76	0.750	300
0402AF-421XJLW	420 @ 7.9 MHz	5	0.70	0.700	340
0402AF-471XJLW	470 @ 7.9 MHz	5	0.65	0.730	310
0402AF-561XJLW	560 @ 7.9 MHz	5	0.60	0.920	200

0402DF (1005) High L Ferrite

Part number	Inductance ±5% (nH)	Impedance typ (Ohms)		SRF typ (MHz)	DCR max (Ohms)	Irms (mA)
		900 MHz	1.7 GHz			
0402DF-200XJRW	20	90	150	2950	0.049	1400
0402DF-360XJRW	36	150	250	2400	0.055	1300
0402DF-560XJRW	56	250	480	2200	0.061	1200
0402DF-770XJRW	77	350	580	2050	0.072	1100
0402DF-900XJRW	90	400	600	2300	0.079	1000
0402DF-101XJRW	105	530	1000	1660	0.104	850
0402DF-121XJRW	120	515	900	2000	0.090	950
0402DF-141XJRW	140	650	1075	1450	0.141	750
0402DF-151XJRW	150	700	1170	1800	0.130	830
0402DF-181XJRW	180	850	1460	1680	0.172	730
0402DF-221XJRW	220	1100	2050	1560	0.240	600
0402DF-271XJRW	270	1300	2150	1480	0.265	590
0402DF-301XJRW	300	1725	2630	1400	0.340	490
0402DF-331XJRW	330	2100	2750	1340	0.435	430
0402DF-361XJRW	360	2150	3100	1200	0.475	420
0402DF-421XJRW	420	2175	3350	1100	0.510	400
0402DF-471XJRW	470	2550	3670	1070	0.670	340
0402DF-531XJRW	530	3950	3050	1000	0.715	330
0402DF-591XJRW	590	4770	3090	960	0.780	320
0402DF-701XJRW	700	5750	1830	600	1.30	230
0402DF-771XJRW	770	4900	1800	585	1.35	220
0402DF-901XJRW	900	7130	4470	760	1.50	230
0402DF-102XJRW	1000	280	180	235	1.05	190
0402DF-222XJRW	2200	200	120	125	1.80	170
0402DF-332XJRW	3300	160	80	80	2.20	150



0402CS (1005)

Part number	Inductance (nH)	Percent tolerance*	SRF min (GHz)	DCR max (Ohms)	Irms (mA)	1.7 GHz	
						L typ	Q typ
0402CS-1N0XJEW	1.0 @ 250 MHz	5	12.70	0.045	1360	1.02	69
0402CS-1N2XJEW	1.2 @ 250 MHz	5	12.90	0.090	740	1.17	38
0402CS-1N8X_EW	1.8 @ 250 MHz	5,3,2	12.00	0.070	1040	1.78	75
0402CS-1N9X_EW	1.9 @ 250 MHz	5,3,2	11.30	0.070	1040	1.74	82
0402CS-2N0X_EW	2.0 @ 250 MHz	5,3,2	11.10	0.070	1040	1.93	75
0402CS-2N2X_EW	2.2 @ 250 MHz	5,3,2	10.80	0.070	960	2.23	100
0402CS-2N4X_EW	2.4 @ 250 MHz	5,3,2	10.50	0.068	790	2.27	68
0402CS-2N7X_EW	2.7 @ 250 MHz	5,3,2	10.40	0.120	640	2.60	61
0402CS-3N3X_EW	3.3 @ 250 MHz	5,3,2	7.00	0.066	840	3.12	87
0402CS-3N6X_EW	3.6 @ 250 MHz	5,3,2	6.80	0.066	840	3.62	71
0402CS-3N9X_EW	3.9 @ 250 MHz	5,3,2	6.00	0.066	840	4.00	75
0402CS-4N3X_EW	4.3 @ 250 MHz	5,3,2	6.00	0.091	700	4.30	71
0402CS-4N7X_EW	4.7 @ 250 MHz	5,3,2	4.77	0.130	640	4.68	68
0402CS-5N1X_EW	5.1 @ 250 MHz	5,3,2	4.80	0.083	800	5.25	82
0402CS-5N6X_EW	5.6 @ 250 MHz	5,3,2	4.80	0.083	760	5.28	81
0402CS-6N2X_EW	6.2 @ 250 MHz	5,3,2	4.80	0.083	760	6.37	76
0402CS-6N8X_EW	6.8 @ 250 MHz	5,3,2	4.80	0.083	680	6.93	78
0402CS-7N5X_EW	7.5 @ 250 MHz	5,3,2	4.80	0.10	680	8.22	88
0402CS-8N2X_EW	8.2 @ 250 MHz	5,3,2	4.40	0.10	680	8.85	84
0402CS-8N7X_EW	8.7 @ 250 MHz	5,3,2	4.10	0.20	480	9.21	73
0402CS-9N0X_EW	9.0 @ 250 MHz	5,3,2	4.16	0.10	680	9.53	78
0402CS-9N5X_EW	9.5 @ 250 MHz	5,3,2	4.00	0.20	480	9.98	69
0402CS-10N0X_EW	10 @ 250 MHz	5,3,2	3.90	0.20	480	10.10	67
0402CS-11N0X_EW	11 @ 250 MHz	5,3,2	3.68	0.12	640	11.20	78
0402CS-12N0X_EW	12 @ 250 MHz	5,3,2	3.60	0.12	640	12.70	71
0402CS-13N0X_EW	13 @ 250 MHz	5,3,2	3.45	0.21	440	14.63	57
0402CS-15N0X_EW	15 @ 250 MHz	5,3,2	3.28	0.17	560	15.50	77
0402CS-16N0X_EW	16 @ 250 MHz	5,3,2	3.10	0.22	560	18.86	47
0402CS-18N0X_EW	18 @ 250 MHz	5,3,2	3.10	0.23	420	20.28	62
0402CS-19N0X_EW	19 @ 250 MHz	5,3,2	3.04	0.20	480	21.10	67
0402CS-20N0X_EW	20 @ 250 MHz	5,3,2	3.00	0.25	420	23.66	53
0402CS-22N0X_EW	22 @ 250 MHz	5,3,2	2.80	0.30	400	26.75	53
0402CS-23N0X_EW	23 @ 250 MHz	5,3,2	2.72	0.30	400	26.90	64
0402CS-24N0X_EW	24 @ 250 MHz	5,3,2	2.70	0.30	400	29.50	50
0402CS-27N0X_EW	27 @ 250 MHz	5,3,2	2.48	0.30	400	33.50	63
0402CS-30N0X_EW	30 @ 250 MHz	5,3,2	2.35	0.30	400	38.50	39
0402CS-33N0X_EW	33 @ 250 MHz	5,3,2	2.35	0.30	400	41.74	32
0402CS-36N0X_EW	36 @ 250 MHz	5,3,2	2.32	0.44	320	48.40	53
0402CS-39N0X_EW	39 @ 250 MHz	5,3,2	2.10	0.55	200	50.23	45
0402CS-40N0X_EW	40 @ 250 MHz	5,3,2	2.24	0.44	320	47.40	33
0402CS-43N0X_EW	43 @ 250 MHz	5,3,2	2.03	0.81	100	61.55	34
0402CS-47N0X_EW	47 @ 250 MHz	5,3,2	2.10	0.83	150	—	—
0402CS-51N0X_EW	51 @ 250 MHz	5,3,2	1.75	0.82	100	—	—
0402CS-56N0X_EW	56 @ 250 MHz	5,3,2	1.76	0.97	100	—	—
0402CS-68N0X_EW	68 @ 250 MHz	5,3,2	1.62	1.12	100	—	—
0402CS-82N0X_EW	82 @ 250 MHz	5,3,2	1.26	1.55	50	—	—
0402CS-R10X_EW	100 @ 250 MHz	5,3,2	1.16	2.00	30	—	—
0402CS-R12XJEW	120 @ 250 MHz	5,3,2	1.10	2.20	50	—	—

* Bold numbers indicate tolerances carried in stock. When ordering, please replace underscore in part number with the proper tolerance code: G = 2%, H = 3%, J = 5%. (e.g. 0402CS-2N4X**GLW** for a 2% tolerance part.)

0402HP (1005)

Part number	Inductance (nH)	Percent tolerance*	SRF min (GHz)	DCR max (Ohms)	Irms (mA)	1.7 GHz	
						L typ	Q typ
0402HP-1N0XJEW	1.0 @ 250 MHz	5	16.0	0.030	2300	0.99	72
0402HP-2N0XJEW	2.0 @ 250 MHz	5	15.2	0.038	2100	1.98	85
0402HP-2N2XJEW	2.2 @ 250 MHz	5	15.1	0.038	2100	2.17	86
0402HP-2N4X_EW	2.4 @ 250 MHz	5,3,2	14.0	0.042	2000	2.38	83
0402HP-2N7X_EW	2.7 @ 250 MHz	5,3,2	13.0	0.085	1500	2.68	85
0402HP-3N3X_EW	3.3 @ 250 MHz	5,3,2	12.8	0.045	1700	3.28	95
0402HP-3N6X_EW	3.6 @ 250 MHz	5,3,2	11.7	0.045	1700	3.58	94
0402HP-3N9X_EW	3.9 @ 250 MHz	5,3,2	9.50	0.045	1700	3.91	98
0402HP-4N3X_EW	4.3 @ 250 MHz	5,3,2	7.15	0.050	1600	4.33	90
0402HP-4N7X_EW	4.7 @ 250 MHz	5,3,2	6.85	0.075	1500	4.74	83
0402HP-5N1X_EW	5.1 @ 250 MHz	5,3,2	6.80	0.125	1200	5.16	76
0402HP-5N6X_EW	5.6 @ 250 MHz	5,3,2	6.50	0.055	1600	5.66	105
0402HP-6N2X_EW	6.2 @ 250 MHz	5,3,2	5.80	0.055	1600	6.25	100
0402HP-6N8X_EW	6.8 @ 250 MHz	5,3,2	5.80	0.070	1500	6.97	94
0402HP-7N5X_EW	7.5 @ 250 MHz	5,3,2	5.40	0.100	1400	7.77	82
0402HP-8N2X_EW	8.2 @ 250 MHz	5,3,2	5.40	0.065	1500	8.40	95
0402HP-8N7X_EW	8.7 @ 250 MHz	5,3,2	5.00	0.070	1500	9.04	95
0402HP-9N0X_EW	9.0 @ 250 MHz	5,3,2	5.00	0.080	1400	9.21	92
0402HP-9N5X_EW	9.5 @ 250 MHz	5,3,2	4.70	0.090	1400	9.97	90
0402HP-10N0X_EW	10 @ 250 MHz	5,3,2	4.70	0.110	1300	10.4	90
0402HP-11N0X_EW	11 @ 250 MHz	5,3,2	4.70	0.065	1400	11.6	98
0402HP-12N0X_EW	12 @ 250 MHz	5,3,2	4.40	0.100	1200	12.6	100
0402HP-13N0X_EW	13 @ 250 MHz	5,3,2	4.20	0.155	870	13.9	82
0402HP-15N0X_EW	15 @ 250 MHz	5,3,2	3.90	0.115	1100	16.0	85
0402HP-16N0X_EW	16 @ 250 MHz	5,3,2	3.70	0.150	850	17.3	77
0402HP-17N0X_EW	17 @ 250 MHz	5,3,2	3.70	0.230	650	18.7	64
0402HP-18N0X_EW	18 @ 250 MHz	5,3,2	3.55	0.120	900	19.5	74
0402HP-19N0X_EW	19 @ 250 MHz	5,3,2	3.50	0.145	850	20.7	88
0402HP-20N0X_EW	20 @ 250 MHz	5,3,2	3.50	0.185	780	22.0	76
0402HP-21N0X_EW	21 @ 250 MHz	5,3,2	1.70	0.460	450	23.2	62
0402HP-22N0X_EW	22 @ 250 MHz	5,3,2	3.30	0.160	800	24.4	74
0402HP-23N0X_EW	23 @ 250 MHz	5,3,2	3.30	0.160	800	25.5	77
0402HP-24N0X_EW	24 @ 250 MHz	5,3,2	3.15	0.210	700	27.1	71
0402HP-25N0X_EW	25 @ 250 MHz	5,3,2	3.15	0.260	700	28.3	73
0402HP-26N0X_EW	26 @ 250 MHz	5,3,2	3.15	0.290	700	29.3	74
0402HP-27N0X_EW	27 @ 250 MHz	5,3,2	3.20	0.350	450	29.5	86
0402HP-30N0X_EW	30 @ 250 MHz	5,3,2	2.90	0.350	450	35.0	87
0402HP-33N0X_EW	33 @ 250 MHz	5,3,2	2.80	0.330	490	38.3	80
0402HP-36N0X_EW	36 @ 250 MHz	5,3,2	2.80	0.390	480	42.2	76
0402HP-37N0X_EW	37 @ 250 MHz	5,3,2	2.70	0.480	470	44.0	72
0402HP-39N0X_EW	39 @ 250 MHz	5,3,2	2.60	0.430	450	47.0	84
0402HP-40N0X_EW	40 @ 250 MHz	5,3,2	2.60	0.430	450	47.4	75
0402HP-43N0X_EW	43 @ 250 MHz	5,3,2	2.50	0.520	450	54.1	68
0402HP-47N0X_EW	47 @ 250 MHz	5,3,2	2.40	0.580	420	58.9	62
0402HP-51N0X_EW	51 @ 250 MHz	5,3,2	2.30	0.700	360	58.8	59
0402HPH-56N0X_EW	56 @ 250 MHz	5,3,2	2.07	0.900	330	72.2	64
0402HPH-68N0X_EW	68 @ 250 MHz	5,3,2	1.84	1.00	320	91.4	64
0402HPH-82N0X_EW	82 @ 250 MHz	5,3,2	1.75	1.10	315	—	—
0402HPH-R10X_EW	100 @ 250 MHz	5,3,2	1.58	1.20	310	—	—
0402HPH-R12X_EW	120 @ 250 MHz	5,3,2	1.25	1.20	310	—	—
0402HPH-R15X_EW	150 @ 250 MHz	5,3,2	1.14	2.0	240	—	—
0402HPH-R16X_EW	160 @ 250 MHz	5,3,2	1.65	2.0	240	—	—
0402HPH-R18X_EW	180 @ 250 MHz	5,3,2	1.08	2.1	240	—	—
0402HPH-R22X_EW	220 @ 250 MHz	5,3,2	0.96	3.1	160	—	—

0402PA (1005) High Current

Part number	Inductance (nH)	Percent tolerance*	SRF typ (GHz)	DCR typ (Ohms)	Irms (mA)	1.7 GHz	
						L typ	Q typ
0402PA-0N8XJEW	0.78 @ 250 MHz	5	15.2	0.018	1860	0.76	55
0402PA-1N9X_EW	1.9 @ 250 MHz	5,2	12.5	0.022	1700	1.81	73
0402PA-3N4X_EW	3.4 @ 250 MHz	5,2	7.20	0.030	1500	3.33	93
0402PA-3N5X_EW	3.5 @ 250 MHz	5,2	8.75	0.040	1400	3.55	82
0402PA-5N8X_EW	5.8 @ 250 MHz	5,2	5.45	0.045	1300	5.70	83
0402PA-6N2X_EW	6.2 @ 250 MHz	5,2	4.95	0.055	1150	6.28	81
0402PA-8N2X_EW	8.2 @ 250 MHz	5,2	4.65	0.060	1100	8.19	82

0604HQ (1610) High Q

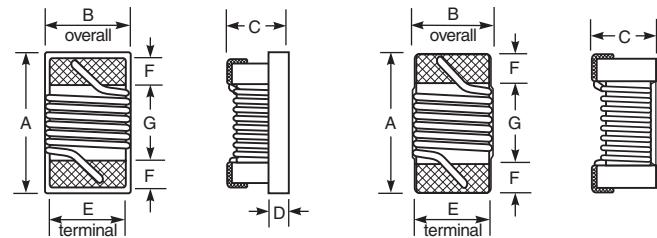
Part number	Inductance (nH)	Percent tolerance	Q min	SRF min (GHz)	DCR max (Ohms)	Irms (A)	1.7 GHz L typ	1.7 GHz Q typ
0604HQ-1N1XJLC	1.15 @ 500 MHz	5	25	12.3	0.021	3.0	1.2	136
0604HQ-2N6XJLC	2.6 @ 500 MHz	5	45	9.30	0.026	2.0	2.6	163
0604HQ-4N5XJLC	4.5 @ 500 MHz	5	50	5.80	0.032	1.8	4.7	155
0604HQ-5N0XJLC	5.0 @ 500 MHz	5	60	5.30	0.032	1.6	5.2	178
0604HQ-6N8XJLC	6.8 @ 500 MHz	5	60	4.70	0.035	1.8	7.4	172
0604HQ-7N6XJLC	7.6 @ 500 MHz	5	60	4.40	0.035	1.5	7.9	137
0604HQ-10NXXJLC	10.4 @ 500 MHz	5	60	4.10	0.037	1.5	11.5	160

Q200
125°

0805CS (2012)

Part number	Inductance (nH)	Percent tolerance*	Q min	SRF typ (MHz)	DCR max (Ohms)	Irms (mA)
0805CS-020XJEC	2.8 @ 250 MHz	5	80 @ 1500 MHz	12200	0.06	800
0805CS-3N0XJEC	3.0 @ 250 MHz	5	65 @ 1500 MHz	12200	0.06	800
0805CS-030XJEC	3.3 @ 250 MHz	5	50 @ 1500 MHz	12200	0.08	600
0805CS-050XJEC	5.6 @ 250 MHz	5	65 @ 1000 MHz	5900	0.08	600
0805CS-060XJEC	6.8 @ 250 MHz	5	50 @ 1000 MHz	5600	0.11	600
0805CS-070XJEC	7.5 @ 250 MHz	5	50 @ 1000 MHz	4800	0.14	600
0805CS-080X_EC	8.2 @ 250 MHz	5,2	50 @ 1000 MHz	4400	0.12	600
0805CS-100X_EC	10 @ 250 MHz	5,2	60 @ 500 MHz	4300	0.10	600
0805CS-120X_EC	12 @ 250 MHz	5,2	50 @ 500 MHz	4000	0.15	600
0805CS-150X_EC	15 @ 250 MHz	5,2	50 @ 500 MHz	3200	0.17	600
0805CS-180X_EC	18 @ 250 MHz	5,2	50 @ 500 MHz	3100	0.20	600
0805CS-220X_EC	22 @ 250 MHz	5,2	55 @ 500 MHz	2600	0.22	500
0805CS-240X_EC	24 @ 250 MHz	5,2	50 @ 500 MHz	2400	0.22	500
0805CS-270X_EC	27 @ 250 MHz	5,2	55 @ 500 MHz	2580	0.25	500
0805CS-330X_EC	33 @ 250 MHz	5,2,1	60 @ 500 MHz	2150	0.27	500
0805CS-360X_EC	36 @ 250 MHz	5,2,1	55 @ 500 MHz	1900	0.27	500
0805CS-390X_EC	39 @ 250 MHz	5,2,1	60 @ 500 MHz	2000	0.29	500
0805CS-430X_EC	43 @ 200 MHz	5,2,1	60 @ 500 MHz	1800	0.34	500
0805CS-470X_EC	47 @ 200 MHz	5,2,1	60 @ 500 MHz	1700	0.31	500
0805CS-560X_EC	56 @ 200 MHz	5,2,1	60 @ 500 MHz	1600	0.34	500
0805CS-680X_EC	68 @ 200 MHz	5,2,1	60 @ 500 MHz	1500	0.38	500
0805CS-820X_EC	82 @ 150 MHz	5,2,1	65 @ 500 MHz	1330	0.42	400
0805CS-910X_EC	91 @ 150 MHz	5,2,1	65 @ 500 MHz	1330	0.48	400
0805CS-101X_EC	100 @ 150 MHz	5,2,1	65 @ 500 MHz	1250	0.46	400
0805CS-111X_EC	110 @ 150 MHz	5,2	50 @ 250 MHz	1100	0.48	400
0805CS-121X_EC	120 @ 150 MHz	5,2,1	50 @ 250 MHz	1100	0.51	400
0805CS-151X_EC	150 @ 100 MHz	5,2,1	50 @ 250 MHz	920	0.56	400
0805CS-181X_EC	180 @ 100 MHz	5,2,1	50 @ 250 MHz	920	0.64	400
0805CS-221X_EC	220 @ 100 MHz	5,2	50 @ 250 MHz	820	0.70	400
0805CS-241X_EC	240 @ 100 MHz	5,2	44 @ 250 MHz	770	1.00	350
0805CS-271X_EC	270 @ 100 MHz	5,2	48 @ 250 MHz	730	1.00	350
0805CS-331X_EC	330 @ 100 MHz	5,2	48 @ 250 MHz	650	1.40	310
0805CS-391X_EC	390 @ 100 MHz	5,2	48 @ 250 MHz	600	1.50	290
0805CS-471X_EC	470 @ 100 MHz	5,2	33 @ 100 MHz	375	1.76	250
0805CS-561X_EC	560 @ 25 MHz	5,2	23 @ 50 MHz	330	1.90	230
0805CS-681X_EC	680 @ 25 MHz	5,2	23 @ 50 MHz	310	2.20	190
0805CS-821X_EC	820 @ 25 MHz	5,2	23 @ 50 MHz	310	2.35	180

0603CS, 0604HQ, 0603LS, 0805HQ, 0805CS



Dimensions (inches mm)

Series	A max	B max	C max	D ref	E	F	G
0603CS	0.071 1,80	0.044 1,12	0.040 1,02	0.015 0,38	0.030 0,76	0.013 0,33	0.034 0,86
0603CT	0.064 1,63	0.033 0,84	0.024 0,61		0.030 0,76	0.013 0,33	0.027 0,69
0603HL	0.071 1,80	0.047 1,19	0.037 0,94		0.030 0,76	0.011 0,28	0.038 0,97
0603LS	0.071 1,80	0.050 1,27	0.044 1,12	0.015 0,38	0.030 0,76	0.013 0,33	0.034 0,86
0604HQ	0.073 1,85	0.054 1,37	0.047 1,19	0.025 0,64	0.040 1,02	0.013 0,33	0.034 0,86
0805CS	0.090 2,29	0.068 1,73	0.060 1,52	0.020 0,51	0.050 1,27	0.020 0,51	0.040 1,02
0805HQ	0.090 2,29	0.068 1,73	0.060 1,52	0.020 0,51	0.050 1,27	0.020 0,51	0.040 1,02
0805HT	0.085 2,16	0.060 1,52	0.035 0,89		0.050 1,27	0.017 0,43	0.045 1,14

Which chip inductor family should you use?

Highest Q	Suffix:	HP	HQ	CS	DS	
	Body sizes:	0402, 0603	0403 - 1008	0402 - 1812	0201	
Lowest DCR	Suffix:	HP	AF	LS		
	Body sizes:	0402, 0603	0402 - 1008	0603 - 1812		
Highest SRF	Suffix:	HP	CS	DS		
	Body sizes:	0402, 0603	0402 - 1812	0201		
Highest current	Suffix:	HP	LS	AF	PA	HC
	Body sizes:	0402, 0603	0603 - 1812	0402 - 1008	0402	0603

Q200
125°

0805HQ (2012) High Q

Part number	Inductance (nH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	Irms (A)
0805HQ-2N5XJEC	2.5 @ 250 MHz	5	80	10300	0.020	1.6
0805HQ-5N6XJEC	5.6 @ 250 MHz	5	98	6100	0.035	1.6
0805HQ-6N2XJEC	6.2 @ 250 MHz	5	88	4750	0.035	1.6
0805HQ-12NX_EC	12 @ 250 MHz	5	80	3000	0.045	1.6
0805HQ-16NX_EC	16 @ 250 MHz	5,2	72	2950	0.060	1.5
0805HQ-18NX_EC	18 @ 250 MHz	5,2	75	2550	0.060	1.4
0805HQ-20NX_EC	20 @ 250 MHz	5,2	70	2050	0.055	1.4
0805HQ-27NX_EC	27 @ 250 MHz	5,2	75	2000	0.070	1.3
0805HQ-30NX_EC	30 @ 250 MHz	5,2	65	1950	0.095	1.2
0805HQ-39NX_EC	39 @ 250 MHz	5,2	65	1600	0.110	1.1
0805HQ-48NX_EC	48 @ 200 MHz	5,2	65	1400	0.095	1.2
0805HQ-51NX_EC	51 @ 200 MHz	5,2	65	1400	0.120	1.0

0805HT (2012) Low Profile

Part number	Inductance (nH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	Irms (mA)
0805HT-1N8TJEC	1.8 @ 250 MHz	5	55 @ 1500 MHz	9400	0.030	800
0805HT-2N0TJEC	2.0 @ 250 MHz	5	55 @ 1000 MHz	11500	0.018	800
0805HT-3N9TJEC	3.9 @ 250 MHz	5	50 @ 1000 MHz	6100	0.055	800
0805HT-4N3TJEC	4.3 @ 250 MHz	5	80 @ 1000 MHz	6164	0.030	800
0805HT-4N7TJEC	4.7 @ 250 MHz	5	50 @ 1000 MHz	5500	0.060	800
0805HT-5N1TJEC	5.1 @ 250 MHz	5	45 @ 1000 MHz	6100	0.069	800
0805HT-5N6TJEC	5.6 @ 250 MHz	5	45 @ 1000 MHz	5800	0.091	800
0805HT-6N8TJEC	6.8 @ 250 MHz	5	50 @ 1000 MHz	4800	0.080	800
0805HT-7N5TJEC	7.5 @ 250 MHz	5	47 @ 1000 MHz	4600	0.082	800
0805HT-8N2TJEC	8.2 @ 250 MHz	5	50 @ 1000 MHz	4800	0.080	800
0805HT-9N1TJEC	9.1 @ 250 MHz	5	54 @ 750 MHz	3900	0.105	800
0805HT-10NT_EC	10 @ 250 MHz	5,2	55 @ 750 MHz	3300	0.080	800
0805HT-12NT_EC	12 @ 250 MHz	5,2	55 @ 750 MHz	3800	0.10	800
0805HT-15NT_EC	15 @ 250 MHz	5,2	50 @ 500 MHz	2950	0.10	800
0805HT-18NT_EC	18 @ 250 MHz	5,2	50 @ 500 MHz	3100	0.13	800
0805HT-20NT_EC	20 @ 250 MHz	5,2	50 @ 500 MHz	2700	0.17	800
0805HT-22NT_EC	22 @ 250 MHz	5,2	50 @ 500 MHz	2900	0.15	800
0805HT-27NT_EC	27 @ 250 MHz	5,2	50 @ 500 MHz	2450	0.19	700
0805HT-33NT_EC	33 @ 250 MHz	5,2	55 @ 500 MHz	2350	0.19	600
0805HT-39NT_EC	39 @ 250 MHz	5,2,1	55 @ 500 MHz	2200	0.27	600
0805HT-47NT_EC	47 @ 200 MHz	5,2,1	50 @ 500 MHz	2000	0.30	600
0805HT-56NT_EC	56 @ 200 MHz	5,2,1	50 @ 500 MHz	1850	0.39	500
0805HT-68NT_EC	68 @ 200 MHz	5,2,1	50 @ 500 MHz	1500	0.40	500
0805HT-82NT_EC	82 @ 150 MHz	5,2,1	50 @ 500 MHz	1500	0.44	500
0805HT-R10T_EC	100 @ 150 MHz	5,2	50 @ 500 MHz	1200	0.64	400
0805HT-R12T_EC	120 @ 150 MHz	5,2	40 @ 250 MHz	1150	0.68	300
0805HT-R15T_EC	150 @ 150 MHz	5,2	40 @ 250 MHz	1050	0.80	300
0805HT-R18T_EC	180 @ 150 MHz	5,2	40 @ 250 MHz	830	0.86	300
0805HT-R22T_EC	220 @ 150 MHz	5,2	39 @ 150 MHz	820	1.29	200
0805HT-R27T_EC	270 @ 150 MHz	5,2	33 @ 150 MHz	790	1.40	200
0805HT-R33T_EC	330 @ 150 MHz	5,2	32 @ 150 MHz	730	1.93	200
0805HT-R39T_EC	390 @ 100 MHz	5,2	30 @ 150 MHz	675	2.80	200
0805HT-R47T_EC	470 @ 100 MHz	5,2	30 @ 150 MHz	610	3.10	200
0805HT-R50T_EC	500 @ 50 MHz	5,2	20 @ 50 MHz	585	3.20	200

* Bold numbers indicate tolerances carried in stock. When ordering, please replace underscore in part number with the proper tolerance code: F = 1%, G = 2%, J = 5%. (e.g. 0805CS-121X**GL**C for a 2% tolerance part.)



1008LS (2520) High L



Part number	Inductance (μH)	Percent tolerance	Q min	SRF min (MHz)	DCR max (Ohms)	Irms max (mA)	Color code
1008LS-102XJEC	1.0 @ 7.9 MHz	5	48 @ 50 MHz	230	0.62	700	Black
1008LS-122XJEC	1.2 @ 7.9 MHz	5	37 @ 50 MHz	210	0.68	650	Red
1008LS-152XJEC	1.5 @ 7.9 MHz	5	37 @ 50 MHz	190	0.76	630	Green
1008LS-182XJEC	1.8 @ 7.9 MHz	5	37 @ 50 MHz	170	0.84	600	Gray
1008LS-222XJEC	2.2 @ 7.9 MHz	5	37 @ 50 MHz	150	1.10	520	Red
1008LS-272XJEC	2.7 @ 7.9 MHz	5	37 @ 50 MHz	135	1.28	490	Violet
1008LS-332XJEC	3.3 @ 7.9 MHz	5	37 @ 50 MHz	120	1.46	450	Orange
1008LS-392XJEC	3.9 @ 7.9 MHz	5	37 @ 7.9 MHz	105	1.56	420	White
1008LS-432XJEC	4.3 @ 7.9 MHz	5	30 @ 7.9 MHz	85	1.70	400	Orange
1008LS-472XJEC	4.7 @ 7.9 MHz	5	32 @ 7.9 MHz	90	1.68	400	Violet
1008LS-502XJEC	5.0 @ 7.9 MHz	5	25 @ 7.9 MHz	30	2.20	360	Black
1008LS-562XJEC	5.6 @ 7.9 MHz	5	37 @ 7.9 MHz	80	1.82	380	Blue
1008LS-622XJEC	6.2 @ 7.9 MHz	5	32 @ 7.9 MHz	75	2.50	330	Red
1008LS-682XJEC	6.8 @ 7.9 MHz	5	37 @ 7.9 MHz	70	2.00	360	Gray
1008LS-822XJEC	8.2 @ 7.9 MHz	5	37 @ 7.9 MHz	65	2.65	330	Red
1008LS-912XJEC	9.1 @ 7.9 MHz	5	37 @ 7.9 MHz	57	2.90	310	Brown
1008LS-103XJEC	10 @ 7.9 MHz	5	37 @ 7.9 MHz	60	2.95	300	Black
1008LS-123XJEC	12 @ 2.5 MHz	5	28 @ 2.5 MHz	38	3.30	290	Red
1008LS-153XJEC	15 @ 2.5 MHz	5	34 @ 2.5 MHz	30	3.70	280	Green
1008LS-183XJEC	18 @ 2.5 MHz	5	28 @ 2.5 MHz	26	4.00	160	Gray
1008LS-223XJEC	22 @ 2.5 MHz	5	20 @ 2.5 MHz	22	6.14	270	Red
1008LS-273XJEC	27 @ 2.5 MHz	5	24 @ 2.5 MHz	12	6.45	210	Violet
1008LS-333XJEC	33 @ 2.5 MHz	5	22 @ 2.5 MHz	19	7.00	200	Orange
1008LS-393XJEC	39 @ 2.5 MHz	5	33 @ 2.5 MHz	26	10.0	170	White
1008LS-473XJEC	47 @ 2.5 MHz	5	20 @ 2.5 MHz	12	10.7	160	Violet
1008LS-563XJEC	56 @ 2.5 MHz	5	20 @ 2.5 MHz	8.0	10.0	170	Blue
1008LS-683XJEC	68 @ 0.79 MHz	5	14 @ 0.79 MHz	5.7	13.5	145	Gray
1008LS-104XJEC	100 @ 0.79 MHz	5	13 @ 0.79 MHz	4.5	20.5	120	Black

1008AF (2520) High Current



Part number	Inductance (μH)	Percent tolerance*	Q typ	SRF min (MHz)	DCR max (Ohms)	Isat (A)	Irms (A)
1008AF-901X_LC	0.9 @ 2.5 MHz	10 5	25	415	0.100	1.4	1.3
1008AF-112X_LC	1.1 @ 2.5 MHz	10 5	24	376	0.105	1.3	1.2
1008AF-132X_LC	1.3 @ 2.5 MHz	10 5	37	198	0.110	1.2	1.1
1008AF-152X_LC	1.5 @ 2.5 MHz	10 5	22	135	0.125	1.1	1.0
1008AF-192X_LC	1.9 @ 2.5 MHz	10 5	29	126	0.140	1.0	1.0
1008AF-222X_LC	2.2 @ 2.5 MHz	10 5	21	106	0.155	0.95	0.95
1008AF-272X_LC	2.7 @ 2.5 MHz	10 5	22	70	0.190	0.80	0.90
1008AF-332X_LC	3.3 @ 2.5 MHz	10 5	21	59	0.210	0.75	0.80
1008AF-392X_LC	3.9 @ 2.5 MHz	10 5	21	55	0.220	0.70	0.80
1008AF-472X_LC	4.7 @ 2.5 MHz	10 5	27	48	0.435	0.70	0.65
1008AF-582X_LC	5.8 @ 2.5 MHz	10 5	21	37	0.280	0.55	0.75
1008AF-682X_LC	6.8 @ 2.5 MHz	10 5	20	33	0.315	0.50	0.70
1008AF-822X_LC	8.2 @ 2.5 MHz	10 5	20	34	0.395	0.50	0.65
1008AF-103X_LC	10.0 @ 2.5 MHz	10 5	22	26	0.480	0.45	0.55

Which chip inductor family should you use?

Highest Q	Suffix: HP Body sizes: 0402, 0603	HQ 0403 - 1008	CS 0402 - 1812	DS 0201
Lowest DCR	Suffix: HP Body sizes: 0402, 0603	AF 0402 - 1008	LS 0603 - 1812	
Highest SRF	Suffix: HP Body sizes: 0402, 0603	CS 0402 - 1812	DS 0201	
Highest current	Suffix: HP Body sizes: 0402, 0603	LS 0603 - 1812	AF 0402 - 1008	PA 0402 HC 0603



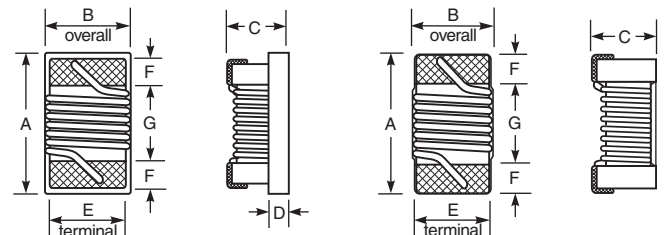
1206CS (3216)



Part number	Inductance (nH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	Irms max (mA)
1206CS-030XJEC	3.3 @ 100 MHz	5	30 @ 300 MHz	6200	0.050	1000
1206CS-060XJEC	6.8 @ 100 MHz	5	30 @ 300 MHz	5500	0.070	1000
1206CS-100XJEC	10 @ 100 MHz	5	40 @ 300 MHz	4000	0.080	1000
1206CS-120X_EC	12 @ 100 MHz	5,2	40 @ 300 MHz	3200	0.080	1000
1206CS-150X_EC	15 @ 100 MHz	5,2	40 @ 300 MHz	3200	0.100	1000
1206CS-180X_EC	18 @ 100 MHz	5,2	50 @ 300 MHz	2800	0.100	1000
1206CS-220X_EC	22 @ 100 MHz	5,2	50 @ 300 MHz	2200	0.100	1000
1206CS-270X_EC	27 @ 100 MHz	5,2	50 @ 300 MHz	1800	0.110	1000
1206CS-330X_EC	33 @ 100 MHz	5,2	55 @ 300 MHz	1800	0.110	1000
1206CS-390X_EC	39 @ 100 MHz	5,2	55 @ 300 MHz	1800	0.120	1000
1206CS-470X_EC	47 @ 100 MHz	5,2	55 @ 300 MHz	1500	0.130	1000
1206CS-560X_EC	56 @ 100 MHz	5,2,1	55 @ 300 MHz	1450	0.140	1000
1206CS-680X_EC	68 @ 100 MHz	5,2,1	55 @ 300 MHz	1200	0.260	900
1206CS-820X_EC	82 @ 100 MHz	5,2,1	55 @ 300 MHz	1200	0.210	900
1206CS-101X_EC	100 @ 100 MHz	5,2,1	55 @ 300 MHz	1100	0.260	850
1206CS-121X_EC	120 @ 100 MHz	5,2,1	60 @ 300 MHz	1100	0.260	800
1206CS-151X_EC	150 @ 100 MHz	5,2,1	60 @ 300 MHz	950	0.310	750
1206CS-181X_EC	180 @ 50 MHz	5,2,1	60 @ 300 MHz	900	0.430	700
1206CS-221X_EC	220 @ 50 MHz	5,2,1	60 @ 300 MHz	760	0.500	670
1206CS-271X_EC	270 @ 50 MHz	5,2,1	55 @ 300 MHz	730	0.560	630
1206CS-331X_EC	330 @ 50 MHz	5,2,1	45 @ 150 MHz	650	0.620	590
1206CS-391X_EC	390 @ 50 MHz	5,2,1	45 @ 150 MHz	600	0.750	530
1206CS-471X_EC	470 @ 50 MHz	5,2,1	45 @ 150 MHz	550	1.30	490
1206CS-561X_EC	560 @ 35 MHz	5,2,1	45 @ 150 MHz	470	1.34	460
1206CS-621X_EC	620 @ 35 MHz	5,2,1	45 @ 150 MHz	470	1.58	460
1206CS-681X_EC	680 @ 35 MHz	5,2,1	45 @ 150 MHz	450	1.58	430
1206CS-751X_EC	750 @ 35 MHz	5,2,1	45 @ 150 MHz	440	2.25	320
1206CS-821X_EC	820 @ 35 MHz	5,2,1	45 @ 150 MHz	420	1.82	400
1206CS-911X_EC	910 @ 35 MHz	5,2,1	45 @ 150 MHz	410	2.95	310
1206CS-102X_EC	1000 @ 35 MHz	5,2,1	45 @ 150 MHz	400	2.80	320
1206CS-122X_EC	1200 @ 35 MHz	5,2,1	45 @ 150 MHz	380	3.20	300

0805AF, 0805LS, 1008AF, 1008CS, 1008CT, 1008HQ, 1008LS, 1206CS

1008HT



Dimensions (inches mm)

Series	A max	B max	C max	D ref	E	F	G
0805AF	0.090 2,29	0.068 1,73	0.060 1,52	0.020 0,51	0.050 1,27	0.016 0,41	0.040 1,02
0805LS	0.090 2,29	0.075 1,91	0.063 1,60	0.020 0,51	0.050 1,27	0.020 0,51	0.040 1,02
1008AF	0.115 2,92	0.110 2,79	0.075 1,91	0.020 0,51	0.080 2,03	0.020 0,51	0.060 1,52
1008CS	0.115 2,92	0.110 2,79	0.080 2,03	0.020 0,51	0.080 2,03	0.020 0,51	0.060 1,52
1008CT	0.115 2,92	0.110 2,79	0.050 1,27	0.020 0,51	0.080 2,03	0.020 0,51	0.060 1,52
1008HQ	0.115 2,92	0.110 2,79	0.080 2,03	0.020 0,51	0.080 2,03	0.020 0,51	0.060 1,52
1008HT	0.105 2,67	0.095 2,41	0.045 1,14		0.080 2,03	0.020 0,51	0.060 1,52
1008LS	0.115 2,92	0.110 2,79	0.080 2,03	0.020 0,51	0.080 2,03	0.020 0,51	0.060 1,52
1206CS	0.140 3,56	0.085 2,16	0.060 1,52	0.020 0,51	0.056 1,42	0.020 0,51	0.080 2,03

* Bold numbers indicate tolerances carried in stock. When ordering, please replace underscore in part number with the proper tolerance code: F = 1%, G = 2%, J = 5%, K = 10%. (e.g. 1206CS-122X**G**LC for a 2% tolerance part.)

1812CS (4532)

Part number	Inductance (µH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	Irms (mA)
1812CS-102XJLC	1.0 @ 7.9 MHz	5	60 @ 50 MHz	310	1.2	480
1812CS-122XJLC	1.2 @ 7.9 MHz	5	62 @ 50 MHz	230	1.2	480
1812CS-152X_LC	1.5 @ 7.9 MHz	5,2	65 @ 50 MHz	210	1.6	430
1812CS-182XJLC	1.8 @ 7.9 MHz	5	68 @ 50 MHz	190	2.0	380
1812CS-222X_LC	2.2 @ 7.9 MHz	5,2	63 @ 50 MHz	170	2.2	340
1812CS-272X_LC	2.7 @ 7.9 MHz	5,2	63 @ 50 MHz	160	3.2	300
1812CS-332X_LC	3.3 @ 7.9 MHz	5,2	65 @ 50 MHz	145	3.8	270
1812CS-392X_LC	3.9 @ 7.9 MHz	5,2	69 @ 50 MHz	130	5.0	240
1812CS-472XJLC	4.7 @ 7.9 MHz	5	63 @ 50 MHz	115	5.4	230
1812CS-562XJLC	5.6 @ 7.9 MHz	5	59 @ 50 MHz	100	5.7	220
1812CS-682XJLC	6.8 @ 7.9 MHz	5	60 @ 50 MHz	90	6.6	210
1812CS-822X_LC	8.2 @ 7.9 MHz	5,2	47 @ 50 MHz	80	7.0	200
1812CS-103XJLC	10 @ 7.9 MHz	5	36 @ 50 MHz	70	7.7	190
1812CS-123XJLC	12 @ 7.9 MHz	5	35 @ 10 MHz	60	8.7	180
1812CS-153X_LC	15 @ 2.5 MHz	5,2	34 @ 10 MHz	50	9.6	170
1812CS-183XJLC	18 @ 2.5 MHz	5	30 @ 10 MHz	45	10.5	160
1812CS-223X_LC	22 @ 2.5 MHz	5,2	32 @ 10 MHz	40	11.5	155
1812CS-273XJLC	27 @ 2.5 MHz	5	29 @ 10 MHz	30	12.5	150
1812CS-333X_LC	33 @ 2.5 MHz	5,2	20 @ 10 MHz	20	13.5	145

1812LS (4532) High L

Part number	Inductance (µH)	Percent tolerance	Q min	SRF typ (MHz)	DCR max (Ohms)	Irms (mA)
1812LS-123XJLC	12 @ 2.5 MHz	5	42 @ 2.5 MHz	85	2.0	310
1812LS-153XJLC	15 @ 2.5 MHz	5	42 @ 2.5 MHz	70	2.5	290
1812LS-183XJLC	18 @ 2.5 MHz	5	45 @ 2.5 MHz	52	2.8	270
1812LS-223XJLC	22 @ 2.5 MHz	5	45 @ 2.5 MHz	58	3.2	260
1812LS-273XJLC	27 @ 2.5 MHz	5	45 @ 2.5 MHz	46	3.6	240
1812LS-333XJLC	33 @ 2.5 MHz	5	45 @ 2.5 MHz	40	4.0	230
1812LS-393XJLC	39 @ 2.5 MHz	5	45 @ 2.5 MHz	30	4.5	210
1812LS-473XJLC	47 @ 2.5 MHz	5	42 @ 2.5 MHz	24	5.0	200
1812LS-563XJLC	56 @ 2.5 MHz	5	42 @ 2.5 MHz	20	5.5	190
1812LS-683XJLC	68 @ 2.5 MHz	5	40 @ 2.5 MHz	16	6.0	180
1812LS-823XJLC	82 @ 2.5 MHz	5	40 @ 2.5 MHz	13.5	7.0	170
1812LS-104XJLC	100 @ 2.5 MHz	5	40 @ 2.5 MHz	12.0	8.0	150
1812LS-124XJLC	120 @ 0.79 MHz	5	33 @ 0.79 MHz	14.5	11.5	135
1812LS-154XJLC	150 @ 0.79 MHz	5	36 @ 0.79 MHz	11.3	13.0	125
1812LS-184XJLC	180 @ 0.79 MHz	5	36 @ 0.79 MHz	9.3	14.2	120
1812LS-224XJLC	220 @ 0.79 MHz	5	38 @ 0.79 MHz	7.6	16.2	115
1812LS-274XJLC	270 @ 0.79 MHz	5	38 @ 0.79 MHz	8.3	20.5	105
1812LS-334XJLC	330 @ 0.79 MHz	5	38 @ 0.79 MHz	7.0	22.5	100
1812LS-394XJLC	390 @ 0.79 MHz	5	38 @ 0.79 MHz	5.2	24.5	90
1812LS-474XJLC	470 @ 0.79 MHz	5	38 @ 0.79 MHz	4.4	26.5	85
1812LS-564XJLC	560 @ 0.79 MHz	5	33 @ 0.79 MHz	2.8	28.5	75
1812LS-684XJLC	680 @ 0.79 MHz	5	33 @ 0.79 MHz	2.3	38.0	60
1812LS-824XJLC	820 @ 0.79 MHz	5	30 @ 0.79 MHz	2.1	41.0	55
1812LS-105XJLC	1000 @ 0.79 MHz	5	30 @ 0.79 MHz	1.9	44.0	50

Which chip inductor family should you use?

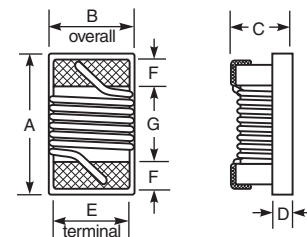
Highest Q	Suffix: HP Body sizes: 0402, 0603	HQ 0403 - 1008	CS 0402 - 1812	DS 0201
Lowest DCR	Suffix: HP Body sizes: 0402, 0603	AF 0402 - 1008	LS 0603 - 1812	
Highest SRF	Suffix: HP Body sizes: 0402, 0603	CS 0402 - 1812	DS 0201	
Highest current	Suffix: HP Body sizes: 0402, 0603	LS 0603 - 1812	AF 0402 - 1008	PA 0402
				HC 0603

1812FS (4532) Shielded

Part number	Inductance (µH)	Percent tolerance*	Q min	DCR max (Ohms)	SRF typ (MHz)	Isat (mA)	Irms (mA)
1812FS-102_LC	1.0	10,5	30	0.070	320	3100	2950
1812FS-122_LC	1.2	10,5	35	0.110	280	2800	2600
1812FS-152_LC	1.5	10,5	20	0.105	200	2100	2850
1812FS-222_LC	2.2	10,5	30	0.120	175	1800	2700
1812FS-242_LC	2.4	10,5	25	0.175	160	1900	2050
1812FS-272_LC	2.7	10,5	30	0.200	165	1400	2100
1812FS-332_LC	3.3	10,5	33	0.185	160	1400	1900
1812FS-392_LC	3.9	10,5	32	0.195	145	1300	1700
1812FS-472_LC	4.7	10,5	28	0.15	125	1000	1800
1812FS-562_LC	5.6	10,5	35	0.40	110	1000	1650
1812FS-682_LC	6.8	10,5	35	0.35	110	850	1450
1812FS-103_LC	10	10,5	35	0.55	90	710	1400
1812FS-153_LC	15	10,5	40	0.75	75	680	1150
1812FS-223_LC	22	10,5	45	0.85	15	600	855
1812FS-333_LC	33	10,5	45	1.1	10	540	820
1812FS-393_LC	39	10,5	45	1.1	9.8	500	710
1812FS-473_LC	47	10,5	45	1.2	8.0	390	645
1812FS-683_LC	68	10,5	45	1.8	14.2	260	650
1812FS-104_LC	100	10,5	45	2.5	4.5	260	520
1812FS-154_LC	150	10,5	40	3.8	3.4	220	475
1812FS-224_LC	220	10,5	45	5.4	3.0	180	390
1812FS-274_LC	270	10,5	35	6.5	2.0	150	350
1812FS-334_LC	330	10,5	45	6.8	3.0	150	310
1812FS-394_LC	390	10,5	35	7.6	2.6	140	310
1812FS-474_LC	470	10,5	35	8.7	2.10	130	280
1812FS-564_LC	560	10,5	20	11.2	1.60	110	280
1812FS-684_LC	680	10,5	25	12.7	1.90	100	250
1812FS-824_LC	820	10,5	25	16.8	1.45	90	210
1812FS-105_LC	1000	10,5	30	19.5	1.68	90	160

HA403x-AL (4532) High Q

Part number	Inductance (nH)	Percent tolerance	Q typ	SRF typ (MHz)	DCR max (Ohms)	Irms (mA)
HA4031-ALC	150 @ 50 MHz	2	75 @ 50 MHz	860	0.100	1150
HA4032-ALC	180 @ 50 MHz	2	80 @ 50 MHz	850	0.105	1150
HA4033-ALC	220 @ 50 MHz	2	80 @ 50 MHz	700	0.110	940
HA4034-ALC	270 @ 50 MHz	2	85 @ 50 MHz	730	0.120	940
HA4035-ALC	330 @ 50 MHz	2	80 @ 50 MHz	600	0.135	850
HA4036-ALC	390 @ 50 MHz	2	80 @ 50 MHz	600	0.150	850

1812CS, 1812FS, 1812LS, HA403x-AL**Dimensions** (inches mm)

Series	A max	B max	C max	D ref	E	F	G
1812CS	0.195 4,95	0.150 3,81	0.135 3,43	0.070 1,78	0.100 2,54	0.025 0,64	0.128 3,25
1812FS	0.231 5,87	0.196 4,98	0.150 3,81	0.107 2,72	0.100 2,54	0.025 0,64	0.128 3,25
1812LS	0.195 4,95	0.150 3,81	0.135 3,43	0.070 1,78	0.100 2,54	0.025 0,64	0.128 3,25
HA403x-AL	0.195 4,95	0.150 3,81	0.135 3,43	0.070 1,78	0.100 2,54	0.025 0,64	0.128 3,25

* Bold numbers indicate tolerances carried in stock. When ordering, please replace underscore in part number with the proper tolerance code: G = 2%, J = 5%, K = 10%. (e.g. 1812CS-153X**G**LJC for a 2% tolerance part.)



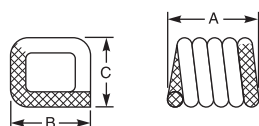
Air Core Inductors

S-parameters & T-Line models
Available on our web site

These tight tolerance surface mount air core inductors combine the exceptionally high Q of an air wound coil with the convenience of surface mounting. Their flat top makes them suitable for automatic placement and reflow or vapor phase processing. Solder coated leads ensure reliable soldering. The **Square Air Core Inductors** are available in seven sizes and offer Q factors up to 230 and current handling as high as 5.7 Amps. The **GA309x** Inductors have high current ratings and low DCR. The **VS Series** have the highest current ratings and the lowest DCR. These inductors are the perfect solution for high-current IF/RF applications that require non-magnetic parts.

Square Inductors

Part number ¹	Inductance ±5% (nH)	Percent tolerance*	Q typ	Test freq (MHz)	SRF typ (GHz)	DCR max (mOhms)	I _{rms} (A)
0806SQ-5N5_LC	5.5	5,2	60	400	4.9	3.4	2.9
0806SQ-6N0_LC	6.0	5,2	64	400	5.2	6.0	2.9
0806SQ-8N9_LC	8.9	5,2	90	400	4.3	7.0	2.9
0806SQ-12N_LC	12.3	5,2	90	400	4.8	8.0	2.9
0806SQ-16N_LC	15.7	5,2	90	400	4.4	9.0	2.9
0806SQ-19N_LC	19.4	5,2	90	400	4.0	10.0	2.9
0807SQ-6N9_LC	6.9	5,2	100	400	4.6	6.0	2.7
0807SQ-10N_LC	10.2	5,2	100	400	4.0	7.0	2.7
0807SQ-11N_LC	11.2	5,2	90	400	3.6	6.3	2.7
0807SQ-14N_LC	13.7	5,2	100	400	4.3	8.0	2.7
0807SQ-17N_LC	17.0	5,2	100	400	4.0	9.0	2.7
0807SQ-22N_LC	22.0	5,2	100	400	3.5	10.0	2.7
0908SQ-8N1_LC	8.1	5,2	130	400	5.2	6.0	4.4
0908SQ-12N_LC	12.1	5,2	130	400	4.3	7.0	4.4
0908SQ-14N_LC	14.7	5,2	90	400	3.0	7.2	4.4
0908SQ-17N_LC	16.6	5,2	130	400	3.4	8.0	4.4
0908SQ-22N_LC	21.5	5,2	130	400	3.7	9.0	4.4
0908SQ-23N_LC	23.0	5,2	120	400	2.6	10.0	4.4
0908SQ-25N_LC	25.0	5,2	130	400	2.5	10.0	4.4
0908SQ-27N_LC	27.3	5,2	130	400	3.2	10.0	4.4
1111SQ-27N_EC	27	5,2	200	400	2.60	8.1	5.5
1111SQ-30N_EC	30	5,2	200	400	2.40	8.3	5.5
1111SQ-33N_EC	33	5,2	200	400	2.30	9.5	4.8
1111SQ-36N_EC	36	5,2	200	400	2.30	9.8	4.8
1111SQ-39N_EC	39	5,2	200	400	2.20	10.0	4.8
1111SQ-43N_EC	43	5,2	200	400	2.20	10.8	4.4
1111SQ-47N_EC	47	5,2	200	400	2.20	11.3	4.4
1515SQ-47N_EC	47	5,2	230	400	1.87	6.35	4.9
1515SQ-68N_EC	68	5,2	230	400	2.13	8.60	5.5
1515SQ-82N_EC	82	5,2	230	400	1.79	9.40	5.6
2222SQ-90N_EC	90	5,2	140	50	1.15	5.50	5.0
2222SQ-111_EC	110	5,2	140	50	1.00	6.50	5.7
2222SQ-131_EC	130	5,2	140	50	1.00	7.50	5.4
2222SQ-161_EC	160	5,2	140	50	1.00	8.25	5.7
2222SQ-181_EC	180	5,2	140	50	1.10	9.50	5.0
2222SQ-221_EC	220	5,2	140	50	1.00	11.0	5.0
2222SQ-271_EC	270	5,2	140	50	0.800	12.5	4.3
2222SQ-301_EC	300	5,2	150	50	0.720	13.8	3.7
2929SQ-331_EC	330	5,2	180	50	0.660	12.5	4.7
2929SQ-361_EC	360	5,2	180	50	0.620	13.5	4.5
2929SQ-391_EC	390	5,2	180	50	0.590	14.5	4.4
2929SQ-431_EC	430	5,2	180	50	0.550	15.5	4.2
2929SQ-501_EC	500	5,2	150	50	0.485	16.5	4.3



Dimensions (inches mm)

Series	A	B	C
0806SQ	0.053 – 0.102 1,346 – 2,591	0.072 1,829	0.055 1,397
0807SQ	0.051 – 0.102 1,295 – 2,591	0.072 1,829	0.060 1,524
0908SQ	0.058 – 0.117 1,473 – 2,972	0.084 2,134	0.072 1,829
1111SQ	0.105 – 0.130 2,67 – 3,30	0.105 2,67	0.110 2,79
1515SQ	0.160 – 0.230 4,06 – 5,84	0.140 3,56	0.147 3,73
2222SQ	0.205 – 0.470 5,21 – 11,94	0.215 – 0.225 5,46 – 5,72	0.224 5,69
2929SQ	0.550 14,10	0.295 7,49	0.285 7,24

Micro

Part number	Turns	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	I _{rms} (A)
0906-2_LC	2	1.65	10,5,2	100	800	10.0	4.0	1.6
0906-3_LC	3	2.55	5,2,1	100	800	8.2	5.0	1.6
0906-4_LC	4	3.85	5,2,1	100	800	7.5	6.0	1.6
0906-5_LC	5	5.40	5,2,1	100	800	7.0	8.0	1.6
1606-6_LC	6	5.60	5,2,1	100	800	6.5	9.0	1.6
1606-7_LC	7	7.15	5,2,1	100	800	6.0	10	1.6
1606-8_LC	8	8.80	5,2,1	100	800	6.0	12	1.6
1606-9_LC	9	9.85	5,2,1	100	800	5.2	13	1.6
1606-10_LC	10	12.55	5,2,1	100	800	4.6	14	1.6

Mini

Part number	Turns	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	I _{rms} (A)
A01KLC	1	2.5	10	145	150	12.5	1.1	4.0
A02T_LC	2	5.0	5,2,1	140	150	6.5	1.8	4.0
A03T_LC	3	8.0	5,2,1	140	150	5.0	2.6	4.0
A04T_LC	4	12.5	5,2,1	137	150	3.3	3.4	4.0
A05T_LC	5	18.5	5,2,1	132	150	2.5	3.9	4.0
B06T_LC	6	17.5	5,2,1	100	150	2.2	4.5	4.0
B07T_LC	7	22.0	5,2,1	102	150	2.1	5.2	4.0
B08T_LC	8	28.0	5,2,1	105	150	1.8	6.0	4.0
B09T_LC	9	35.5	5,2,1	112	150	1.5	6.8	4.0
B10T_LC	10	43.0	5,2,1	106	150	1.2	7.9	4.0

Low Profile Mini

Part number	Turns	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	I _{rms} (A)
1508-5N5_LC	3	5.5	5,2	115	250	5.0	2.6	4.0
1508-9N0_LC	4	9.0	5,2	120	250	4.0	3.4	4.0
1508-13N_LC	5	13.0	5,2	100	250	3.0	3.9	4.0
2508-16N_LC	7	16.0	5,2	110	250	3.0	5.2	4.0
2508-18N_LC	8	18.0	5,2	110	250	2.9	6.0	4.0
2508-23N_LC	9	23.0	5,2	110	250	2.6	6.8	4.0
2508-27N_LC	10	27.0	5,2	110	250	2.3	7.9	4.0

Midi

Part number	L (nH)	Percent tolerance*	Q typ	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	I _{rms} (A)
1812SMS-22N_LC	22	5,2	135	100	150	3.2	4.2	3.0
1812SMS-27N_LC	27	5,2	135	100	150	2.7	4.0	3.5
1812SMS-33N_LC	33	5,2	130	100	150	2.5	4.8	3.0
1812SMS-39N_LC	39	5,2	135	100	150	2.1	4.4	3.0
1812SMS-47N_LC	47	5,2	135	100	150	2.1	5.6	3.0
1812SMS-56N_LC	56	5,2	125	100	150	1.5	6.2	3.0
1812SMS-68N_LC	68	5,2	120	100	150	1.5	8.2	2.5
1812SMS-82N_LC	82	5,2	120	100	150	1.3	9.4	2.5
1812SMS-R10_LC	100	5,2	115	100	150	1.2	12.3	1.7
1812SMS-R12_LC	120	5,2	125	100	150	1.1	17.3	1.5
1812SMS-R15_LC	150	5,2	145	100	150	0.75	33.0	1.2

* When ordering, please replace underscore in part number with the proper tolerance code: G = 2%, J = 5%.
(e.g. B10T**G**LC for a 2% tolerance part.)

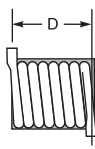
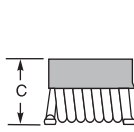
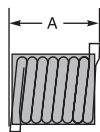


Part number	L (nH)	Percent tolerance*	Q typ	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	Irms (A)
132-09SM_LD	90	5,2	114	95	50	1.140	15	3.5
132-10SM_LD	111	5,2	104	87	50	1.020	15	3.5
132-11SM_LD	130	5,2	104	87	50	0.900	20	3.0
132-12SM_LD	169	5,2	114	95	50	0.875	25	3.0
132-13SM_LD	206	5,2	114	95	50	0.800	30	3.0
132-14SM_LD	222	5,2	110	92	50	0.730	35	3.0
132-15SM_LD	246	5,2	114	95	50	0.685	35	3.0
132-16SM_LD	307	5,2	114	95	50	0.660	35	3.0
132-17SM_LD	380	5,2	114	95	50	0.590	50	2.5
132-18SM_LD	422	5,2	114	95	50	0.540	60	2.5
132-19SM_LD	491	5,2	114	95	50	0.535	65	2.0
132-20SM_LD	538	5,2	104	87	50	0.490	90	2.0

GA309x High Current Inductors



Part number	L (nH) ±5%	Q typ	Test freq (MHz)	SRF typ (GHz)	DCR max (mOhms)	Irms (A)
GA3092-ALC	3.7	100	150	17.5	2.0	7.0
GA3093-ALC	6.6	100	150	5.8	2.0	7.0
GA3094-ALC	12.0	140	150	2.4	2.0	7.0
GA3095-ALC	17.5	140	150	2.2	2.0	7.0



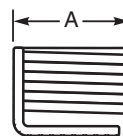
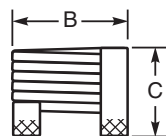
Dimensions (inches mm)

Series	A max	B	C max	D	E max
0906	0.095 2,41	0.055±0.010 1,40±0,25	0.060 1,52	0.072±0.010 1,83±0,25	0.135 3,43
1606	0.165 4,19	0.055±0.010 1,40±0,25	0.062 1,58	0.144±0.012 3,66±0,30	0.135 3,43
1508	0.155 3,94	0.135 3,43	0.079 2,01	0.115±0.010 2,92±0,25	0.165 4,19
2508	0.270 6,86	0.135 3,43	0.079 2,01	0.230±0.015 5,84±0,25	0.165 4,19
1812	0.195 4,95	0.140±0.010 3,56±0,25	0.165 4,20	0.170±0.015 4,32±0,39	0.250 6,35
132	0.415 10,55	0.240±0.015 6,10±0,38	0.235 5,97	0.314±0.020 7,98±0,51	0.260 6,60
A0xT	0.155 3,94	0.110±0.010 2,80±0,25	0.124 3,15	0.115±0.010 2,92±0,25	0.175 4,45
B0xT	0.270 6,86	0.110±0.010 2,80±0,25	0.124 3,15	0.230±0.015 5,84±0,25	0.175 4,45
GA309x-AL	0.230 5,84	—	0.210 5,33	0.112 – 0.175 3,05 – 4,45	0.225 5,71

VS High Current Inductors



Part number	L ±20% (nH)	Q typ	SRF typ (MHz)	DCR (mOhms)		Irms (A)	
				typ	max	20° rise	40° rise
1010VS-23NMEC	23.5	95	923	1.05	1.20	18.0	26.0
1010VS-46NMEC	46.5	150	526	1.50	1.62	17.9	25.5
1010VS-79NMEC	79.0	135	386	1.95	2.11	17.8	25.0
1010VS-111MEC	111	150	382	2.53	2.73	15.7	22.0
1010VS-141MEC	146	140	433	3.08	3.33	14.1	19.3
1212VS-22NMEC	22.0	200	918	0.48	0.55	40.5	57.0
1212VS-42NMEC	42.0	195	557	0.70	0.77	38.0	52.0
1212VS-66NMEC	66.0	200	480	0.90	0.99	35.0	48.0
1212VS-90NMEC	90.0	175	444	1.10	1.21	33.0	45.0
1212VS-111MEC	117	165	399	1.30	1.43	32.0	44.0
2014VS-33NMEC	33	230	620	0.63	0.74	32.5	43.0
2014VS-66NMEC	66	200	413	0.90	1.00	31.5	42.5
2014VS-111MEC	108	210	320	1.20	1.34	31.0	42.0
2014VS-151MEC	155	205	296	1.44	1.60	29.4	39.7
2014VS-201MEC	202	200	262	1.70	1.82	26.3	35.8
2014VS-251MEC	257	200	230	1.94	2.15	24.9	34.5



Dimensions (inches mm)

Series	A		B		C	
1010VS	0.394	10,0	0.394	10,0	0.142 – 0.240	3,60 – 6,10
1212VS	0.472	12,0	0.453	11,5	0.260 – 0.445	6,60 – 11,3
2014VS	0.770	19,56	0.535	13,60	0.236 – 0.449	5,99 – 11,4



Wideband Bias Chokes

The Coilcraft BCR and BCL conical inductors offer a flat bandwidth with high impedance to 40 GHz, and are ideal for use in bias tees. The BCR has a full-length cap that fully protects the coil and provides a large surface for pick and place. The BCL has "flying leads" that allows adjustment of the mounting angle. The 4310LC has a flat bandwidth to 6 GHz, making it the perfect solution for lower bandwidth, high power applications.

BCL Conical Inductors

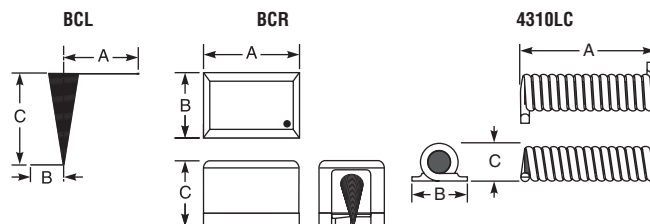
Part number	Inductance ±5% (µH)	Bandwidth	DCR max (Ohms)	Irms (A) 40°C rise
BCL-221JL	0.22	10 MHz–40 GHz	0.10	1.20
BCL-531JL	0.53	10 MHz–40 GHz	0.15	1.06
BCL-122JL	1.20	10 MHz–40 GHz	1.05	0.270
BCL-162JL	1.65	10 MHz–40 GHz	0.60	0.490
BCL-232JL	2.35	10 MHz–40 GHz	1.61	0.270
BCL-272JL	2.75	10 MHz–40 GHz	0.40	0.675
BCL-632JL	6.35	10 MHz–40 GHz	0.92	0.480
BCL-652JL	6.50	10 MHz–40 GHz	0.70	0.650
BCL-802JL	8.00	10 MHz–40 GHz	3.39	0.230

BCR Conical Inductors

Part number	Inductance ±5% (µH)	Bandwidth	DCR max (Ohms)	Irms (A) 40°C rise
BCR-221JLC	0.22	10 MHz–40 GHz	0.10	1.20
BCR-531JLC	0.53	10 MHz–40 GHz	0.15	1.06
BCR-122JLC	1.20	10 MHz–40 GHz	1.05	0.270
BCR-162JLC	1.65	10 MHz–40 GHz	0.60	0.490
BCR-232JLC	2.35	10 MHz–40 GHz	1.61	0.270
BCR-272JLC	2.75	10 MHz–40 GHz	0.40	0.675
BCR-632JLC	6.35	10 MHz–40 GHz	0.92	0.480
BCR-652JLC	6.50	10 MHz–40 GHz	0.70	0.650
BCR-802JLC	8.00	10 MHz–40 GHz	3.39	0.230

4310LC Wideband Bias Chokes

Part number	Inductance ±10% (µH)	SRF (typ) (MHz)	Bandwidth	DCR (max) (mOhms)	Irms (A) 40°C rise
4310LC-132KEC	1.30	235	10 MHz–6 GHz	15.1	4.2
4310LC-352KEC	3.50	188	10 MHz–6 GHz	49.0	3.1



Dimensions (inches mm)

Series	A max	B max	C max
BCL-221	0.166 4.22	0.100 2.54	0.138 3.51
BCL-531	0.166 4.22	0.100 2.54	0.179 4.55
BCL-122	0.166 4.22	0.100 2.54	0.115 2.92
BCL-162	0.166 4.22	0.100 2.54	0.174 4.42
BCL-232	0.166 4.22	0.100 2.54	0.150 3.81
BCL-272	0.275 6.99	0.100 2.54	0.310 7.87
BCL-632	0.275 6.99	0.100 2.54	0.340 8.62
BCL-652	0.390 9.91	0.100 2.54	0.435 11.05
BCL-802	0.180 4.57	0.100 2.54	0.237 6.00

Dimensions (inches mm)

Series	A max	B max	C max
BCR-221	0.220 5.59	0.150 3.81	0.160 4.06
BCR-531	0.220 5.59	0.150 3.81	0.160 4.06
BCR-122	0.120 3.05	0.100 2.54	0.110 2.79
BCR-162	0.220 5.59	0.150 3.81	0.160 4.06
BCR-232	0.220 5.59	0.150 3.81	0.160 4.06
BCR-272	0.440 11.18	0.220 5.59	0.220 5.59
BCR-632	0.440 11.18	0.220 5.59	0.220 5.59
BCR-652	0.440 11.18	0.220 5.59	0.220 5.59
BCR-802	0.220 5.59	0.150 3.81	0.160 4.06
4310LC	0.460 11.68	0.220 4.90	0.140 3.554



SM RFID Transponder Coils

These Coilcraft transponder coils are designed for RFID applications at 125 kHz. The 4312RV and 5315TC were designed to withstand harsh mechanical shock and are well suited for use in tire pressure monitoring systems.

4308RV High Temperature

Part number	Inductance at 125 kHz (mH)	Percent tol *	Q min	Read distance (inches/cm)	Sensitivity (mV/µT)	Matching capacitor (pF)	DCR max (Ohms)	SRF typ (kHz)
4308RV-374X_LD	0.37	5.2	26	22/55.9	9.82	4380	6.5	1800
4308RV-404X_LD	0.40	5.2	26	23/58.4	10.38	4050	7.1	5000
4308RV-704X_LD	0.70	5.2	20	25/63.5	13.96	2320	19	6600
4308RV-904X_LD	0.90	5.2	22	26/66.0	16.06	1800	21	4800
4308RV-115X_LD	1.08	5.2	24	30/76.2	17.78	1500	24	4300
4308RV-205X_LD	1.97	5.2	28	34/86.4	24.90	823	31	1750
4308RV-245X_LD	2.38	5.2	30	37/94.0	28.21	681	34	1700
4308RV-295X_LD	2.89	5.2	30	37/94.0	32.12	561	42	1900
4308RV-335X_LD	3.30	5.2	30	38/96.5	34.96	491	48	1425
4308RV-415X_LD	4.15	5.2	27	39/99.1	41.35	391	70	1620
4308RV-495X_LD	4.90	5.2	26	38/96.5	47.17	331	93	1150
4308RV-685X_LD	6.80	5.2	28	41/104.1	61.71	238	110	1080
4308RV-715X_LD	7.10	5.2	27	42/106.7	65.60	228	114	1050
4308RV-725X_LD	7.20	5.2	28	40/101.6	66.67	225	114	965
4308RV-815X_LD	8.10	5.2	28	42/106.7	75.08	200	125	965
4308RV-905X_LD	9.00	5.2	30	40/101.6	84.64	180	125	725

4312RV Rugged

Part number	Inductance at 125 kHz (mH)	Percent tol	Q min	Read distance (inches/cm)	Sensitivity (mV/µT)	Matching capacitor (pF)	DCR max (Ohms)	SRF typ (kHz)
4312RV-404XGLD	0.40	2	21	19.65/49.91	9.14	4050	11.5	6340
4312RV-105XGLD	1.00	2	21	24.25/61.60	15.26	1621	29	4150
4312RV-245XGLD	2.38	2	26	28.35/72.01	24.72	681	55	2470
4312RV-495XGLD	4.90	2	24	32.85/83.44	42.45	331	103	1270
4312RV-725XGLD	7.20	2	30	35.05/89.03	60.02	225	128	1465
4312RV-905XGLD	9.00	2	32	35.80/91.00	78.10	180	150	1200

4513TC High Sensitivity

Part number	Inductance at 125 kHz (mH)	Percent tol	Q min	Read distance (inches/cm)	Sensitivity (mV/µT)	Matching capacitor (pF)	DCR max (Ohms)	SRF typ (kHz)
4513TC-404XGLD	0.40	2	29	23.90/60.71	11.76	4050	9.66	5890
4513TC-105XGLD	1.00	2	33	30.95/78.61	19.80	1621	20.6	3670
4513TC-245XGLD	2.38	2	40	36.75/93.35	32.80	681	39.0	2200
4513TC-495XGLD	4.90	2	44	38.55/97.92	54.76	331	55.8	1551
4513TC-725XGLD	7.20	2	51	44.10/112.01	76.97	225	91.0	1400

5315TC Rugged

Part number	Inductance at 125 kHz (mH)	Percent tol	Q min	Read distance (inches/cm)	Sensitivity (mV/µT)	Matching capacitor (pF)	DCR max (Ohms)	SRF typ (kHz)
5315TC-374XGLD	0.37	2	8	16/40.6	8.32	4380	24	7100
5315TC-404XGLD	0.40	2	8	17/43.2	8.67	4050	25	7300
5315TC-704XGLD	0.70	2	12	21/53.3	11.43	2320	33	4500
5315TC-904XGLD	0.90	2	12	21/53.3	13.35	1800	38	3800
5315TC-105XGLD	1.00	2	12	23/58.4	14.07	1600	40	2500
5315TC-115XGLD	1.08	2	13	23/58.4	14.65	1500	40	2300
5315TC-205XGLD	1.97	2	14	25/63.5	21.28	820	70	2300
5315TC-245XGLD	2.38	2	12	26/66.0	23.97	680	80	2400
5315TC-335XGLD	3.30	2	14	27/68.6	29.70	490	95	1800
5315TC-415XGLD	4.15	2	15	29/73.7	34.95	390	103	1260
5315TC-495XGLD	4.90	2	15	28/71.1	40.00	330	150	1550
5315TC-685XGLD	6.80	2	13	30/76.2	53.87	240	180	1350
5315TC-715XGLD	7.10	2	14	30/76.2	55.41	220	176	890
5315TC-725XGLD	7.20	2	17	30/76.2	56.74	220	165	880

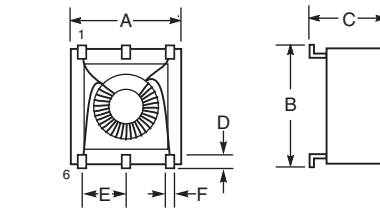
Series	A max	B max	C max
4308RV	0.450 11.43	0.108 2.74	0.083 2.10
4312RV	0.448 11.38	0.136 3.45	0.092 2.34
4513TC	0.461 11.70	0.138 3.50	0.102 2.60
5315TC	0.536 13.61	0.150 3.81	0.089 2.26

SM Wideband RF Transformers

PWB

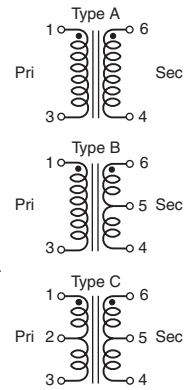


Type	Part number	Imp ratio	Bandwidth (MHz)	I _{rms} (mA)	Insertion loss (dB)	Pins 1-3		Pins 6-4	
						L min (μH)	DCR max (Ohms)	L min (μH)	DCR max (Ohms)
A	PWB-1-ALD	1:1	0.080 - 450	250	0.60	40	0.070	40	0.070
A	PWB-1.5-ALD	1:1.5	0.030 - 300	250	0.35	110	0.080	160	0.110
A	PWB-2-ALD	1:2	0.050 - 200	250	0.25	75	0.088	150	0.120
A	PWB-4-ALD	1:4	0.150 - 500	250	0.50	25	0.075	98	0.135
A	PWB-16-ALD	1:16	0.050 - 80	250	0.35	75	0.260	1250	0.910
A	PWB1010LD	1:1	0.0035 - 125	250	0.20	780	0.320	780	0.320
A	PWB1010-1LD	1:1	0.03 - 250	250	0.20	95	0.200	95	0.200
A	PWB1015LD	1:1.5	0.07 - 225	250	0.40	51	0.130	80	0.145
A	PWB1040LD	1:4	0.15 - 400	250	0.40	25	0.115	95	0.160
B	PWB-1-BLD	1:1	0.130 - 425	250	0.40	22	0.070	22	0.070
B	PWB-1.5-BLD	1:1.5	0.500 - 250	250	0.40	140	0.100	200	0.120
B	PWB-2-BLD	1:2	0.200 - 400	250	0.35	75	0.088	150	0.130
B	PWB-4-BLD	1:4	0.140 - 700	250	0.50	25	0.075	98	0.135
B	PWB-16-BLD	1:16	0.075 - 90	250	0.30	75	0.260	1250	0.910
B	PWB2010LD	1:1	0.0035 - 125	250	0.20	780	0.320	780	0.320
B	PWB2010-1LD	1:1	0.03 - 250	250	0.20	95	0.200	95	0.200
B	PWB2040LD	1:4	0.15 - 400	250	0.40	25	0.115	95	0.160
C	PWB-1-CLD	1:1	0.100 - 300	250	0.60	22	0.070	22	0.070
C	PWB-1.5-CLD	1:1.5	0.150 - 200	250	0.30	140	0.110	200	0.120
C	PWB-2-CLD	1:2	0.130 - 285	250	0.30	75	0.105	150	0.130
C	PWB-4-CLD	1:4	0.140 - 500	250	0.50	25	0.075	98	0.135
C	PWB3010LD	1:1	0.0035 - 125	250	0.20	780	0.320	780	0.320
C	PWB3010-1LD	1:1	0.03 - 250	250	0.20	95	0.200	95	0.200
C	PWB3015LD	1:1.5	0.07 - 225	250	0.40	51	0.130	80	0.145
C	PWB3040LD	1:4	0.15 - 400	250	0.40	25	0.115	95	0.160



Dimensions (inches mm)

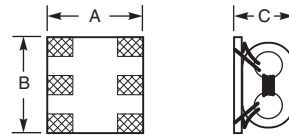
A	B	C	D	E	F
0.256 6,48	0.283 7,2	0.175 4,45	0.04 1,00	0.10 2,54	0.02 0,5



WBC

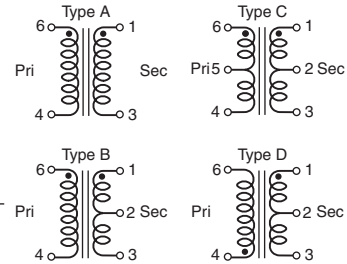


Type	Part number	Imp ratio	Bandwidth (MHz)	Insertion loss max (dB)	Pins 4-6		Pins 1-3	
					L min (μH)	DCR max (mOhms)	L min (μH)	DCR max (mOhms)
A	WBC1-1LC	1:1	0.400-600	0.40	10	120	10	120
B	WBC1-1TLC	1:1	0.250-750	0.58	9.5	75	9.5	75
B	WBC2-1TLC	1:2	0.200-500	0.50	10	120	20	150
B	WBC3-1TLC	1:3	0.300-900	0.60	9	100	27	150
B	WBC4-1TLC	1:4	0.250-750	1.0	9	55	36	120
B	WBC4-14LC	1:4	1.500-1200	2.0	2	50	8	100
B	WBC4-1WLC	1:4	0.500-1000	0.90	5	80	20	120
B	WBC4-6TLC	1:4	0.300-700	0.65	9	80	36	200
D	WBC8-1LC	1:8	0.150-600	0.60	22	120	176	310
B	WBC9-1LC	1:9	0.300-500	0.54	9	80	81	230
B	WBC16-1TLC	1:16	0.600-300	0.80	5	80	80	230
C	WBC4-4LC	1:4	0.250-800	1.0	9	60	36	120



Dimensions (inches mm)

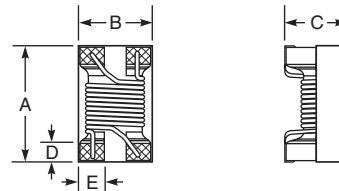
A max	B max	C max
0.175 4,45	0.165 4,19	0.120 3,05



PFD2015

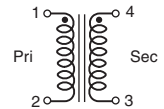


Part number	Imp ratio	Bandwidth (MHz)	I _{rms} (mA)	Insertion loss max (dB)	L/winding (μH)	Test freq (MHz)	DCR max (Ohms)	Isolation (Vrms)
PFD2015-102MEC	1:1	4.6 - 750	1130	0.5	0.80	0.100	0.165	250
PFD2015-122MEC	1:1	4.0 - 730	1060	0.4	0.96	0.100	0.175	250
PFD2015-182MEC	1:1	2.2 - 490	690	0.4	1.44	0.100	0.294	250
PFD2015-272MEC	1:1	1.5 - 410	580	0.4	2.16	0.100	0.477	250
PFD2015-332MEC	1:1	1.2 - 340	525	0.5	2.64	0.100	0.670	250
PFD2015-472MEC	1:1	0.8 - 230	370	0.4	3.76	0.100	1.00	250
PFD2015-682MEC	1:1	0.6 - 200	265	0.5	5.44	0.100	1.75	250
PFD2015-822MEC	1:1	0.5 - 174	210	0.5	6.56	0.100	2.50	250
PFD2015-103MEC	1:1	0.4 - 130	185	0.7	8.00	0.100	3.40	250



Dimensions (inches mm)

Series	A max	B max	C max	D	E
PFD2015	0.090 2,29	0.060 1,52	0.059 1,50	0.014 0,356	0.017 0,342
PFD3215	0.131 3,32	0.092 2,33	0.059 1,50	0.014 0,356	0.025 0,635



PFD3215



Part number	Imp ratio	Bandwidth (MHz)	I _{rms} (A)	Insertion loss max (dB)	L/winding (μH)	Test freq (MHz)	DCR max (Ohms)	Isolation (Vrms)
PFD3215-391MEC	1:1	12.6 - 645	1.39	0.6	0.31	0.100	0.070	250
PFD3215-102MEC	1:1	4.0 - 500	1.20	0.4	0.80	0.100	0.123	250
PFD3215-182MEC	1:1	2.2 - 300	0.85	0.5	1.4	0.100	0.250	250
PFD3215-222MEC	1:1	2.0 - 370	0.81	0.4	1.7	0.100	0.265	250
PFD3215-332MEC	1:1	1.2 - 310	0.78	0.6	2.6	0.100	0.335	250
PFD3215-472MEC	1:1	0.9 - 250	0.72	0.5	3.7	0.100	0.442	250
PFD3215-682MEC	1:1	0.8 - 150	0.57	0.5	5.4	0.100	0.600	250
PFD3215-103MEC	1:1	0.4 - 150	0.38	0.5	8.0	0.100	1.25	250

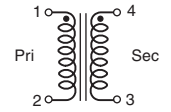
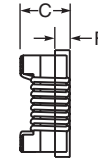
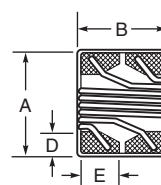


SM/TH Wideband Transformers

1812WBT



Part number	Imp ratio	Bandwidth (MHz)	Irms (mA)	Insertion loss (dB)	L/winding (µH)	Test freq (MHz)	DCR max (Ohms)	Isolation (Vrms)
1812WBT-1LC	1:1	0.340 - 22	200	<1	14	10	4.8	50
1812WBT-2LC	1:1	0.800 - 60	400	<1	5.3	10	1.8	50
1812WBT-3LC	1:1	4 - 200	500	<1	1.25	50	0.7	50
1812WBT-4LC	1:1	11 - 480	700	<1	0.22	50	0.3	50
1812WBT-5LC	1:1	48 - 645	700	<1.5	0.09	50	0.15	50
1812WBT1.5-1LC	1.5:1	1.3 - 100	400	0.5	5.0/3.3	10	1.05/0.87	50
1812WBT1.5-2LC	1.5:1	2.75 - 135	500	0.5	2.5/1.6	10	0.74/0.58	50
1812WBT1.5-3LC	1.5:1	7.2 - 200	500	0.75	1.0/0.6	10	0.43/0.34	50
1812WBT1.5-4LC	1.5:1	38 - 535	700	2.25	0.144/0.090	10	0.18/0.14	50
1812WBT2-1LC	2:1	0.800 - 23	200	<1.5	13.80/6.90	10	4.6/3.2	50
1812WBT2-2LC	2:1	2.2 - 65	400	<1.5	5.850/2.925	10	1.25/0.95	50
1812WBT2-3LC	2:1	4 - 105	600	<1.5	2.60/1.30	10	0.52/0.42	50
1812WBT2-4LC	2:1	11 - 200	700	<1.5	0.910/455	50	0.27/0.23	50



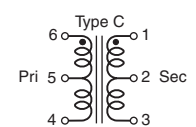
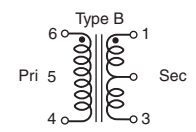
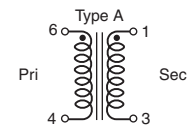
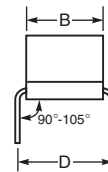
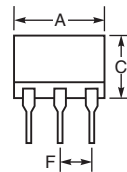
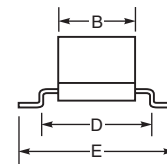
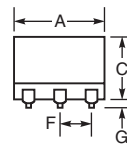
Dimensions (inches mm)

A max	B max	C max	D	E	F
0.195 4,95	0.150 3,81	0.135 3,43	0.030 0,76	0.040 1,02	0.070 1,78

WB, WBT



Type	SM part number	TH part number	Imp ratio	Bandwidth (MHz)	Pins 4-6		Pins 1-3	
					L min (µH)	DCR max (mOhms)	L min (µH)	DCR max (mOhms)
A	WB1-1LSD	WB1-1L	1:1	0.150 - 500	27	75	27	75
A	WB1-6LSD	WB1-6L	1:1	0.100 - 350	25	100	25	100
A	WB1.18-3LSD	WB1.18-3L	1:1.18	0.040 - 300	90	300	108	330
A	WB1.5-6LSD	WB1.5-6L	1:1.5	0.050 - 325	56	120	84	150
A	WB2-1-2WLSD	WB2-1-2WL	1:2	0.080 - 700	38	100	75	150
A	WB2.5-6LSD	WB2.5-6L	1:2.5	0.080 - 225	30	100	75	130
A	WB4-6LSD	WB4-6L	1:4	0.100 - 125	25	100	100	200
A	WB9-1LSD	WB9-1L	1:9	0.125 - 125	25	100	225	250
A	WB16-1LSD	WB16-1L	1:16	0.050 - 100	56	75	896	330
A	WB36-1LSD	WB36-1L	1:36	0.100 - 45	25	50	900	180
B	WB1-1TLSD	WB1-1TL	1:1	0.100 - 375	25	100	25	100
B	WB1-6TLSD	WB1-6TL	1:1	0.050 - 200	70	150	70	150
B	WB2-1TLSD	WB2-1TL	1:2	0.070 - 400	38	100	75	150
B	WB2.5-6TLSD	WB2.5-6TL	1:2.5	0.050 - 125	56	120	140	200
B	WB3-1TLSD	WB3-1TL	1:3	0.040 - 500	96	110	270	200
B	WB4-1HLSD	WB4-1HL	1:4	0.100 - 500	25	120	100	160
B	WB4-6TLSD	WB4-6TL	1:4	0.050 - 200	43	120	172	160
B	WB5-1TLSD	WB5-1TL	1:5	0.050 - 400	48	220	240	500
B	WB8-1TLSD	WB8-1TL	1:8	0.150 - 400	18	100	144	270
B	WB13-1TLSD	WB13-1TL	1:13	0.150 - 125	17	90	221	200
B	WB16-6TLSD	WB16-6TL	1:16	0.050 - 100	56	75	896	330
C	WB1-6LSD	WB1-6L	1:1	0.040 - 200	70	150	70	150
C	WB1.5-1LSD	WB1.5-1L	1:1.5	0.040 - 350	70	150	105	180
C	WB2.5-6LSD	WB2.5-6L	1:2.5	0.050 - 100	70	150	175	200
C	WB4-1LSD	WB4-1L	1:3	0.040 - 150	45	120	135	160
C	WB4-1ALSD	WB4-1AL	1:4	0.040 - 350	96	110	384	220
C	WB16-1LSD	WB16-1L	1:16	0.100 - 100	25	100	400	300
C	WB25-1LSD	WB25-1L	1:25	0.100 - 65	25	100	625	350



Dimensions (inches mm)

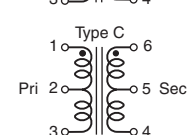
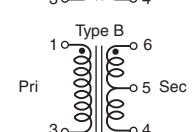
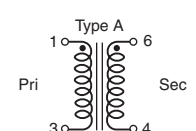
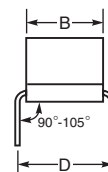
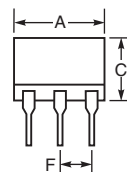
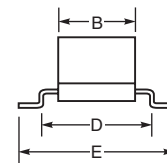
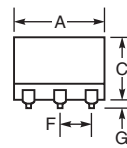
Series	A max	B max	C max	D ref	E	F	G max
SM	0.325 8,26	0.285 7,24	0.225 5,72	0.400 10,16	0.520 13,2	0.10 2,5	0.025 0,64
Leaded	0.325 8,26	0.285 7,24	0.225 5,72	0.300 7,62		0.10 2,5	

SWB



NEW!

Type	SM part number	TH part number	Imp ratio	Bandwidth (MHz)	Pins 1-3		Pins 6-4	
					L min (µH)	DCR max (mOhms)	L min (µH)	DCR max (mOhms)
A	SWB1010-SMLD	SWB1010-PCL	1:1	0.005 - 100	780	320	780	320
A	SWB1010-1-SMLD	SWB1010-1-PCL	1:1	0.040 - 175	95	200	95	200
A	SWB1015-SMLD	SWB1015-PCL	1.5:1	0.100 - 150	80	145	51	130
A	SWB1040-SMLD	SWB1040-PCL	4:1	0.200 - 300	95	160	25	115
B	SWB2010-SMLD	SWB2010-PCL	1:1	0.005 - 100	780	320	780	320
B	SWB2010-1-SMLD	SWB2010-1-PCL	1:1	0.040 - 175	95	200	95	200
B	SWB2040-SMLD	SWB2040-PCL	4:1	0.200 - 300	95	160	25	115
C	SWB3010-SMLD	SWB3010-PCL	1:1	0.005 - 100	780	320	780	320
C	SWB3010-1-SMLD	SWB3010-1-PCL	1:1	0.040 - 175	95	200	95	200
C	SWB3015-SMLD	SWB3015-PCL	1.5:1	0.100 - 150	80	145	51	130
C	SWB3040-SMLD	SWB3040-PCL	4:1	0.200 - 300	95	160	25	115

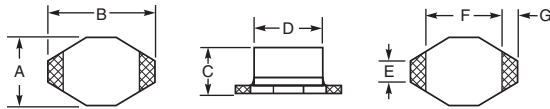


Dimensions (inches mm)

Series	A max	B max	C max	D ref	E	F	G max
SM	0.325 8,26	0.285 7,24	0.225 5,72	0.400 10,16	0.520 13,2	0.10 2,5	0.025 0,64
TH	0.325 8,26	0.285 7,24	0.225 5,72	0.300 7,62		0.10 2,5	

DS1608B Backlight

Part number	Inductance ±20% (mH)	DCR max (Ohms)	Insulation core-winding (MOhms)	SRF typ (MHz)	Irms (mA)
DS1608B-104MLC	0.10	0.95	>10	12	220
DS1608B-154MLC	0.15	1.4	>10	10	200
DS1608B-224MLC	0.22	1.7	>10	8	180
DS1608B-334MLC	0.33	2.2	>10	6	160
DS1608B-474MLC	0.47	3.8	>10	5	140
DS1608B-684MLC	0.68	4.9	>10	4	120
DS1608B-105MLC	1.0	9	>10	2	100
DS1608B-155MLC	1.5	11	>10	1	80
DS1608B-225MLC	2.2	19	>10	1	50
DS1608B-335MLC	3.3	24	>10	1	40
DS1608B-475MLC	4.7	30	>10	1	30
DS1608B-685MLC	6.8	56	>10	0.9	20
DS1608B-106MLC	10	74	>10	0.8	10



Dimensions (inches mm)

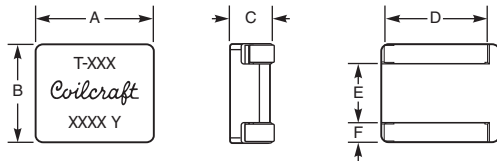
Series	A max	B max	C max	D ref	E	F	G
DS1608B	0.175 4,45	0.260 6,60	0.115 2,92	0.160 4,06	0.050 1,27	0.170 4,32	0.040 1,02

MVR High Current

Part number	Inductance ±20% (µH)	DCR ±8% (mOhms)	SRF (MHz)	Isat (A) 20% drop	Irms (A)	Height max (mm)
Low core loss						
MVR1251T-251MLC	0.25	0.925	160	35	25	5.1
MVR1251T-361MLC	0.36	0.925	140	24	24	5.1
MVR1251T-561MLC	0.56	0.925	110	13	25	5.1

MVR High Current

Part number	Inductance ±20% (µH)	DCR ±8% (mOhms)	SRF (MHz)	Isat (A) 20% drop	Irms (A)	Height max (mm)
Soft saturation						
MVR1247C-361MLC	0.36	0.925	120	36	24	4.7
MVR1255C-651MLC	0.65	1.50	115	24	19	5.5
MVR1261C-112MLC	1.10	1.95	95	20	20	6.1
MVR1271C-162MLC	1.65	2.53	55	17	20	7.1
MVR1278C-232MLC	2.30	3.08	50	16	17	7.8

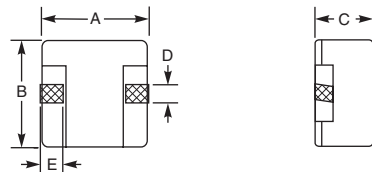


Dimensions (inches mm)

Series	A max	B max	C max	D	E	F
MVR1247	0.453 11,50	0.384 9,75	0.185 4,70	0.360 9,14	0.223 5,67	0.069 1,75
MVR1251	0.453 11,50	0.384 9,75	0.200 5,10	0.360 9,14	0.223 5,67	0.069 1,75
MVR1255	0.453 11,50	0.384 9,75	0.217 5,50	0.360 9,14	0.223 5,67	0.069 1,75
MVR1261	0.453 11,50	0.384 9,75	0.240 6,10	0.360 9,14	0.223 5,67	0.069 1,75
MVR1271	0.453 11,50	0.384 9,75	0.280 7,10	0.360 9,14	0.223 5,67	0.069 1,75
MVR1278	0.453 11,50	0.384 9,75	0.307 7,80	0.360 9,14	0.223 5,67	0.069 1,75

MLC75xx Shielded

Part number	Inductance (µH)	DCR (mOhms)		SRF typ (MHz)	Isat (A)			Irms (A)	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
MLC7532-101NEC	0.10±30%	1.20	1.40	670	21.0	38.0	56.2	24.9	32.5
MLC7532-221MEC	0.22±20%	2.50	2.80	316	22.9	41.0	59.2	20.2	26.5
MLC7542-311MEC	0.31±20%	2.30	2.70	300	12.2	21.9	29.8	20.0	23.8
MLC7542-601MEC	0.60±20%	2.95	3.80	200	9.9	15.7	20.2	16.7	21.9
MLC7540-102MEC	1.00±20%	4.42	5.00	155	7.4	11.3	15.7	13.8	18.2
MLC7540-142MEC	1.40±20%	7.10	8.00	125	6.3	11.0	14.3	10.6	14.1
MLC7540-222MEC	2.17±20%	11.7	13.0	91	5.3	8.3	11.4	8.5	11.3



Dimensions (inches mm)

Series	A max	B max	C max	D	E
MLC12xx	0.449 11,4	0.413 10,5	See table	0.70 1,8	0.091 2,3
MLC7532	0.295 7,5	0.276 7,0	0.126 3,2	0.039 1,0	0.079 2,0
MLC7542	0.295 7,5	0.276 7,0	0.165 4,2	0.039 1,0	0.079 2,0
MLC7540	0.295 7,5	0.276 7,0	0.157 4,0	0.039 1,0	0.079 2,0
MLC15xx	0.551 14,0	0.520 13,2	See table	0.094 2,4	0.118 3,0
MLC1770	0.661 16,8	0.642 16,3	0.256 7,0	0.116 2,95	0.165 4,2

MLC12xx High Current

85°

Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)	10% drop	20% drop	20°C rise	40°C rise	height max (mm)
		nom	max						
MLC1265-361MLC	0.36	0.93	1.03	234	26.9	42.6	16.5	22.7	6.5
MLC1260-401MLC	0.40	0.93	1.03	228	21.0	35.2	16.3	21.9	6.1
MLC1255-421MLC	0.42	0.93	1.03	219	21.1	34.5	16.8	24.1	5.6
MLC1240-451MLC	0.45	1.73	1.91	198	16.5	24.9	12.8	19.8	4.1
MLC1265-701MLC	0.70	1.24	1.37	134	16.4	27.5	15.2	21.0	6.5
MLC1250-801MLC	0.80	2.35	2.59	151	13.3	21.7	12.4	17.3	5.1
MLC1240-901MLC	0.90	2.57	2.83	108	13.9	22.8	11.9	16.3	4.1
MLC1260-122MLC	1.20	2.38	2.62	93	14.0	23.3	12.3	17.6	6.1
MLC1255-122MLC	1.20	2.38	2.62	85	14.1	22.4	12.4	17.5	5.6
MLC1250-132MLC	1.30	2.38	2.62	76	10.8	17.7	11.7	16.5	5.3
MLC1245-152MLC	1.50	4.08	4.49	79	10.7	17.3	10.3	14.2	4.6
MLC1260-172MLC	1.75	2.84	3.13	72	12.1	19.2	10.9	15.3	6.1
MLC1260-222MLC	2.20	4.30	4.73	63	10.8	17.2	12.8	17.2	6.1
MLC1260-332MLC	3.30	5.10	5.60	52	8.80	14.4	12.6	16.7	6.1
MLC1245-402MLC	4.00	8.18	9.00	46	7.42	11.8	6.9	9.8	4.8
MLC1260-472MLC	4.70	8.97	9.67	38	8.20	13.4	8.8	12.2	6.1
MLC1260-682MLC	6.80	9.76	10.74	35	5.80	9.8	8.3	11.7	6.1
MLC1260-822MLC	8.20	10.68	11.75	28	5.20	9.0	7.9	10.8	6.1

MLC15xx High Current

85°

Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)	Isat (A)		Irms (A)		Height max (mm)
		nom	max		10% drop	20% drop	20°C rise	40°C rise	
MLC1565-451MLC	0.45	0.864	0.951	158	32.8	54.0	18.0	25.6	6.5
MLC1565-501MLC	0.50	0.864	0.951	132	21.3	38.1	18.6	26.9	6.5
MLC1555-551MLC	0.55	1.34	1.48	165	20.8	35.7	16.1	22.3	5.6
MLC1565-801MLC	0.80	1.20	1.32	93	27.4	47.4	17.4	24.6	6.5
MLC1560-901MLC	0.90	1.72	1.90	101	17.8	28.7	14.6	20.6	6.0
MLC1538-102MLC	1.0	3.46	3.81	81	13.6	21.2	11.5	16.7	3.9
MLC1550-102MLC	1.0	1.72	1.90	76	16.1	27.3	13.9	19.7	5.2
MLC1565-142MLC	1.4	2.20	2.42	77	18.9	30.1	13.7	19.9	6.5
MLC1538-152MLC	1.5	4.36	4.80	50	13.4	21.0	10.6	14.6	3.9
MLC1565-202MLC	2.0	3.56	3.82	64	15.2	24.2	11.6	16.3	6.5
MLC1538-222MLC	2.2	5.90	6.50	81	9.0	15.0	7.5	10.6	3.9
MLC1550-252MLC	2.5	3.43	3.74	45	10.9	17.7	11.5	15.8	5.2
MLC1565-282MLC	2.8	4.10	4.51	44	13.7	22.3	10.7	15.2	6.5
MLC1555-302MLC	3.0	4.06	4.47	42	11.1	18.1	10.9	15.6	5.6
MLC1538-332MLC	3.3	8.80	9.68	113	7.4	12.2	5.95	9.86	3.9
MLC1565-372MLC	3.7	3.10	3.40	47	8.13	13.63	12.17	16.58	6.5
MLC1550-452MLC	4.5	7.13	7.85	36	7.12	11.8	8.43	11.7	5.2
MLC1565-472MLC	4.7	4.00	4.40	39	6.23	10.57	10.98	15.57	6.5
MLC1565-602MLC	6.0	5.50	6.05	34	5.60	9.57	9.27	13.62	6.5
MLC1565-732MLC	7.3	7.20	7.92	29	5.10	8.60	8.60	12.01	6.5
MLC1565-922MLC	9.2	9.70	10.60	25	4.57	7.80	7.19	10.18	6.5
MLC1565-113MLC	11.3	10.60	11.60	21	4.07	7.03	6.87	9.46	6.5
MLC1565-133MLC	13.0	12.57	13.75	19	3.93	6.70	6.12	8.65	6.5
MLC1565-153MLC	15.4	16.40	18.00	17	3.43	5.77	5.63	7.75	6.5

MLC1770 High Current

Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF typ (MHz)	Isat (A)					Irms (A)	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise		
MLC1770-801MED	0.80	1.15	1.30	76	28.40	49.92	64.88	20.36	28.92		
MLC1770-142MED	1.40	1.80	2.00	60	20.52	35.64	51.44	16.10	24.06		
MLC1770-202MED	2.00	2.70	3.00	46	14.20	24.80	37.00	12.98	19.12		
MLC1770-282MED	2.80	3.60	4.00	41	13.00	22.80	33.80	11.56	15.80		



SER1590 High Current



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF typ (MHz)	Isat (A)			Irms (A)
		nom	max		10% drop	20% drop	30% drop	
SER1590-301MLD	0.30	0.66	0.72	260	53	56	57	32
SER1590-501MLD	0.50	0.87	0.94	202	39	42	44	27
SER1590-601MLD	0.60	0.87	0.94	182	33	35	36	27
SER1590-681MLD	0.68	0.87	0.94	160	30	32	33	27
SER1590-801MLD	0.80	0.87	0.94	123	25	26	27	27
SER1590-901MLD	0.90	1.08	1.15	160	27	28	29	22
SER1590-102MLD	1.0	0.87	0.94	115	20	22	23	27
SER1590-122MLD	1.2	1.08	1.15	90	20	22	23	22
SER1590-152MLD	1.5	1.08	1.15	73	17	18	19	22



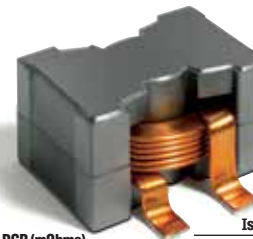
SER2000 High Current



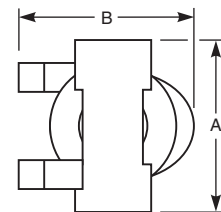
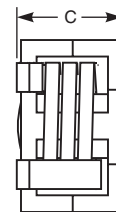
Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF typ (MHz)	Isat (A)			Irms (A)	
		nom	max		10% drop	20°C rise	40°C rise		
SER2009-301MLD	0.30	0.740	0.630	550	100	41	54		
SER2010-301MLD	0.30	1.00	0.900	182	100	36	45		
SER2009-501MLD	0.50	0.740	0.630	544	60	41	54		
SER2010-501MLD	0.50	1.00	0.900	148	81	36	45		
SER2011-501MLD	0.50	1.34	1.20	161	100	30	40		
SER2009-601MLD	0.60	0.740	0.630	648	49	41	54		
SER2010-601MLD	0.60	1.00	0.900	115	70	36	45		
SER2011-601MLD	0.60	1.34	1.20	124	90	30	40		
SER2012-601MLD	0.60	1.60	1.44	115	97	25	35		
SER2009-681MLD	0.68	0.740	0.630	454	45	41	54		
SER2010-681MLD	0.68	1.00	0.900	136	62	36	45		
SER2011-681MLD	0.68	1.34	1.20	135	78	30	40		
SER2012-681MLD	0.68	1.60	1.44	103	85	25	35		
SER2013-681MLD	0.68	1.82	1.70	104	98	23	30		
SER2009-801MLD	0.80	0.740	0.630	567	38	41	54		
SER2010-801MLD	0.80	1.00	0.900	92	53	36	45		
SER2011-801MLD	0.80	1.34	1.20	113	70	30	40		
SER2012-801MLD	0.80	1.60	1.44	91	75	25	35		
SER2013-801MLD	0.80	1.82	1.70	93	85	23	30		
SER2014-801MLD	0.80	2.15	1.94	104	98	21	27		
SER2009-901MLD	0.90	0.740	0.630	557	33	41	54		
SER2010-901MLD	0.90	1.00	0.900	96	48	36	45		
SER2011-901MLD	0.90	1.34	1.20	104	62	30	40		
SER2012-901MLD	0.90	1.60	1.44	85	69	25	35		
SER2013-901MLD	0.90	1.82	1.70	98	73	23	30		
SER2014-901MLD	0.90	2.15	1.94	102	87	21	27		
SER2009-102MLD	1.0	0.740	0.630	488	29	41	54		
SER2010-102MLD	1.0	1.00	0.900	81	42	36	45		
SER2011-102MLD	1.0	1.34	1.20	97	56	30	40		
SER2012-102MLD	1.0	1.60	1.44	75	64	25	35		
SER2013-102MLD	1.0	1.82	1.70	98	68	23	30		
SER2014-102MLD	1.0	2.15	1.94	88	70	21	27		
SER2009-122MLD	1.2	0.740	0.630	81	28	41	54		
SER2010-122MLD	1.2	1.00	0.900	69	37	36	45		
SER2011-122MLD	1.2	1.34	1.20	81	49	30	40		
SER2012-122MLD	1.2	1.60	1.44	73	54	25	35		
SER2013-122MLD	1.2	1.82	1.70	82	58	23	30		
SER2014-122MLD	1.2	2.15	1.94	78	63	21	27		
SER2009-202MLD	2.0	0.740	0.630	40	16	41	54		
SER2010-202MLD	2.0	1.00	0.900	48	27	36	45		
SER2011-202MLD	2.0	1.34	1.20	56	37	30	40		
SER2012-202MLD	2.0	1.60	1.44	51	35	25	35		
SER2013-202MLD	2.0	1.82	1.70	61	40	23	30		
SER2014-202MLD	2.0	2.15	1.94	62	45	21	27		
SER2013-362MLD	3.6	1.82	1.70	38	25	23	30		
SER2013-402MLD	4.0	1.82	1.70	35	20	23	30		
SER2014-402MLD	4.0	2.15	1.94	36	25	21	27		
SER2013-472MLD	4.7	1.82	1.70	30	18	23	30		



SER2900 High Current



Part number	Inductance ±10% (µH)	DCR (mOhms)		SRF typ (MHz)	Isat (A)			Irms (A)	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
SER2915L-152KL	1.5	1.50	1.65	60	100	>100	>100	20	30
SER2915H-222KL	2.2	1.86	2.05	40	100	>100	>100	20	30
SER2915L-222KL	2.2	1.50	1.65	50	82.0	84.0	84.8	20	30
SER2918H-332KL	3.3	2.60	2.86	40	91.0	92.5	93.6	20	28
SER2915H-332KL	3.3	1.86	2.05	30	62.0	66.9	68.4	20	30
SER2915L-332KL	3.3	1.50	1.65	40	48.0	54.0	57.0	20	30
SER2918H-472KL	4.7	2.60	2.86	30	59.0	61.2	62.4	20	28
SER2915H-472KL	4.7	1.86	2.05	25	42.0	48.0	50.1	20	30
SER2915L-472KL	4.7	1.50	1.65	30	33.0	36.9	39.0	20	30
SER2918H-682KL	6.8	2.60	2.86	25	42.0	45.0	45.9	20	28
SER2915H-682KL	6.8	1.86	2.05	20	30.0	34.5	36.2	20	30
SER2915L-682KL	6.8	1.50	1.65	25	22.0	26.0	27.8	20	30
SER2918H-103KL	10	2.60	2.86	20	28.0	31.2	32.1	20	28
SER2915H-103KL	10	1.86	2.05	15	18.0	21.5	23.4	20	30
SER2915L-103KL	10	1.50	1.65	20	13.0	16.2	17.6	20	30
SER2918H-153KL	15	2.60	2.86	16	18.0	21.2	21.9	20	28
SER2915H-153KL	15	1.86	2.05	12	11.5	14.0	15.2	20	30
SER2915L-153KL	15	1.50	1.65	15	7.5	9.8	11.0	20	30
SER2918H-223KL	22	2.60	2.86	15	12.0	14.0	15.0	20	28
SER2915H-223KL	22	1.86	2.05	10	7.0	8.6	9.6	20	30
SER2915L-223KL	22	1.50	1.65	10	4.5	6.0	6.8	20	30
SER2918H-333KL	33	2.60	2.86	10	7.0	8.7	9.6	20	28
SER2915H-333KL	33	1.86	2.05	8	4.0	5.1	5.9	20	30
SER2915L-333KL	33	1.50	1.65	7	2.0	2.6	3.3	20	30



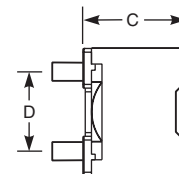
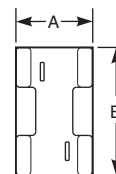
Dimensions (inches mm)

Series	A max	B max	C max
SER1590	0.62 15,75	0.64 16,26	0.40 10,16
SER2009	0.79 20,07	0.77 19,56	0.34 8,64
SER2010	0.79 20,07	0.77 19,56	0.37 9,40
SER2011	0.79 20,07	0.77 19,56	0.42 10,67
SER2012	0.79 20,07	0.77 19,56	0.47 11,94
SER2013	0.79 20,07	0.77 19,56	0.51 12,95
SER2014	0.79 20,07	0.77 19,56	0.55 13,97
SER2915	1.1 27,9	1.1 27,9	0.605 15,36
SER2918	1.1 27,9	1.1 27,9	0.700 17,78

VER2923 High Current



Part number	Inductance ±10% (µH)	DCR (mOhms)		SRF typ (MHz)	Isat (A)			Irms (A)	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
VER2923-332KL	3.3	2.3	2.6	40	95.0	104	108	19	26
VER2923-472KL	4.7	2.3	2.6	30	63.0	72.0	76.0	19	26
VER2923-682KL	6.8	2.3	2.6	25	48.0	53.0	56.0	19	26
VER2923-103KL	10	2.3	2.6	20	30.0	34.0	37.0	19	26
VER2923-153KL	15	2.3	2.6	16	20.5	23.0	24.5	19	26
VER2923-223KL	22	2.3	2.6	13	12.2	14.7	16.4	19	26
VER2923-333KL	33	2.3	2.6	10	7.5	9.2	10.3	19	26



Dimensions (inches mm)

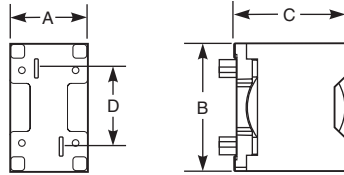
Series	A max	B max	C max	D cen
VER2923	0.668 16,97	1.08 27,43	0.895 22,74	0.65 16,51



AGP2923 High Current



Part number	Inductance ±10% (µH)	DCR (mOhms)		SRF typ (MHz)	Isat (A)			Irms (A)	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
AGP2923-332KL	3.3	2.3	2.6	40	95.0	104	108	19	26
AGP2923-472KL	4.7	2.3	2.6	30	63.0	72.0	76.0	19	26
AGP2923-682KL	6.8	2.3	2.6	25	48.0	53.0	56.0	19	26
AGP2923-103KL	10	2.3	2.6	20	30.0	34.0	37.0	19	26
AGP2923-153KL	15	2.3	2.6	16	20.5	23.0	24.5	19	26
AGP2923-223KL	22	2.3	2.6	13	12.2	14.7	16.4	19	26
AGP2923-333KL	33	2.3	2.6	10	7.5	9.2	10.3	19	26



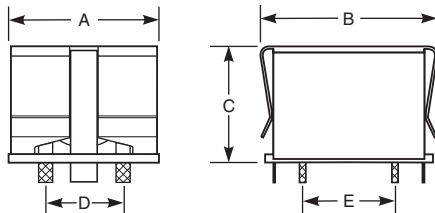
Dimensions (inches mm)

Series	A max	B max	C max	D cen
AGP2923	0.668 16,97	1.08 27,43	0.935 23,75	0.65 16,51



AGP4233 High Current

Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF typ (MHz)	Isat (A)			Irms (A)	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
AGP4233-682ME	6.8	2.80	2.95	21.7	92.0	97.8	101.8	24	34
AGP4233-103ME	10	2.80	2.95	18.8	56.0	60.0	63.0	24	34
AGP4233-153ME	15	2.80	2.95	15.2	45.0	47.0	49.0	24	34
AGP4233-223ME	22	2.80	2.95	12.0	32.8	35.4	36.6	24	34
AGP4233-333ME	33	2.80	2.95	10.0	22.5	24.7	25.8	24	34
AGP4233-473ME	47	2.80	2.95	8.5	16.0	17.6	18.6	24	34
AGP4233-683ME	68	2.80	2.95	6.4	10.6	12.2	13.0	24	34
AGP4233-104ME	100	2.80	2.95	5.2	6.88	7.80	8.36	24	34
AGP4233-154ME	150	2.80	2.95	4.2	4.18	4.96	5.40	24	34
AGP4233-224ME	220	10.5	11.5	5.0	6.40	7.20	7.60	12.4	17.5
AGP4233-334ME	330	10.5	11.5	4.1	4.20	4.70	5.00	12.4	17.5
AGP4233-474ME	470	10.5	11.5	3.6	2.60	3.20	3.40	12.4	17.5



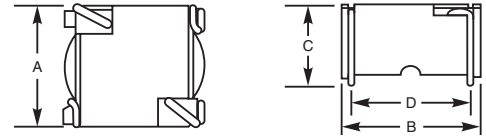
Dimensions (inches mm)

Series	A max	B max	C max	D cen	E cen
AGP4233	1.45 36,8	1.70 43,2	1.10 28,0	0.728 18,5	0.826-0.886 21,0-22,5

SPT Toroid



Part number	Inductance ±20% (µH)	DCR max (mOhms)	SRF typ (MHz)	Isat (A)			Body size
				10% drop	20% drop	30% drop	
Standard series							
SPT20L-112MLD	1.1	16.0	130	3.2	4.8	6.7	1
SPT38L-382MLD	3.8	9.3	61	4.0	6.1	8.2	3
SPT30L-522MLD	5.2	24.2	47	2.8	4.2	5.8	2
SPT20L-702MLD	7.0	95.0	37	1.2	1.8	2.5	1
SPT38L-752MLD	7.5	22.8	50	2.7	4.2	5.8	3
SPT44L-792MLD	7.9	16.2	26	3.5	5.4	7.3	4
SPT30L-123MLD	12	54.7	23.9	1.9	2.8	3.7	2
SPT44L-143MLD	14	23.6	15.6	2.8	4.1	5.7	4
SPT50L-163MLD	16	19.7	14.3	2.8	4.2	5.8	5
SPT38L-223MLD	22	63	18.1	1.5	2.3	3.1	3
SPT20L-233MLD	23	320	13.5	0.6	1.0	1.3	1
SPT50L-263MLD	26	32	11.2	2.3	3.4	4.6	5
SPT30L-353MLD	35	166	11.0	1.1	1.6	2.2	2
SPT44L-413MLD	41	85	8.30	1.6	2.3	3.1	4
SPT38L-733MLD	73	290	10.8	0.81	1.3	1.7	3
SPT50L-733MLD	73	133	4.56	1.4	2.0	2.7	5
SPT30L-174MLD	170	640	3.84	0.44	0.68	0.95	2
SPT38L-294MLD	290	657	2.87	0.41	0.64	0.90	3
SPT50L-564MLD	560	550	1.54	0.37	0.59	0.81	5
SPT38L-674MLD	670	1200	1.38	0.26	0.40	0.55	3
SPT44L-115MLD	1100	1908	1.35	0.25	0.41	0.57	4
SPT50L-205MLD	2000	1932	1.35	0.18	0.29	0.41	5
High current series							
SPT44H-282MLD	2.8	4.6	74	5.8	8.8	12.2	6
SPT44H-422MLD	4.2	6.6	61	5.0	7.8	10.9	6
SPT50H-652MLD	6.5	7.2	27.3	4.6	6.7	9.1	7
SPT50H-842MLD	8.4	8.5	22.8	4.3	6.4	8.5	7
SPT68H-113MLD	11	8.2	25.9	4.8	7.2	9.9	8
SPT68H-183MLD	18	12.5	12.0	3.9	5.7	7.7	8



Dimensions (inches mm)

Body Size	A max	B max	C max	D cen
1	0.34 8,64	0.34 8,64	0.28 7,00	0.26 6,60
2	0.44 11,05	0.44 11,18	0.37 9,50	0.35 8,89
3	0.56 14,22	0.56 14,35	0.37 9,50	0.45 11,43
4	0.59 14,99	0.61 15,62	0.41 10,50	0.50 12,70
5	0.67 17,02	0.70 17,78	0.41 10,50	0.58 14,73
6	0.66 16,89	0.66 16,89	0.41 10,50	0.56 14,22
7	0.74 18,80	0.74 18,80	0.41 10,50	0.63 16,00
8	0.94 23,88	0.94 23,88	0.41 10,50	0.82 20,83



Unshielded SM Power Inductors

SPICE models
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LPO3010 Power Wafer®

Part number	Inductance (μ H)	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A)
LPO3010-102MLC	1.0 $\pm$ 30%	0.140	200	1.7	1.4
LPO3010-122MLC	1.2 $\pm$ 30%	0.160	190	1.6	1.4
LPO3010-152MLC	1.5 $\pm$ 30%	0.200	150	1.3	1.0
LPO3010-222MLC	2.2 $\pm$ 30%	0.265	140	1.2	0.90
LPO3010-332MLC	3.3 $\pm$ 30%	0.335	100	0.96	0.60
LPO3010-472MLC	4.7 $\pm$ 30%	0.570	80	0.76	0.50
LPO3010-682MLC	6.8 $\pm$ 30%	0.650	68	0.68	0.47
LPO3010-822MLC	8.2 $\pm$ 30%	1.00	60	0.64	0.45
LPO3010-103MLC	10 $\pm$ 20%	1.15	50	0.50	0.45
LPO3010-153MLC	15 $\pm$ 20%	1.57	35	0.42	0.40
LPO3010-223MLC	22 $\pm$ 20%	2.20	30	0.37	0.35
LPO3010-333MLC	33 $\pm$ 20%	2.80	14	0.31	0.29
LPO3010-473MLC	47 $\pm$ 20%	4.60	12	0.30	0.28

LPO3310 Power Wafer®

Part number	Inductance $\pm$ 20% (μ H)	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A)
LPO3310-301MLC	0.30	0.040	420	2.8	2.8
LPO3310-471MLC	0.47	0.042	310	2.3	2.3
LPO3310-701MLC	0.70	0.068	200	1.9	1.9
LPO3310-102MLC	1.0	0.076	180	1.6	1.6
LPO3310-152MLC	1.5	0.12	153	1.4	1.4
LPO3310-222MLC	2.2	0.15	112	1.1	1.1
LPO3310-332MLC	3.3	0.20	91	0.95	0.95
LPO3310-472MLC	4.7	0.27	80	0.80	0.80
LPO3310-682MLC	6.8	0.36	68	0.66	0.66
LPO3310-822MLC	8.2	0.50	58	0.65	0.65
LPO3310-103MLC	10	0.52	52	0.57	0.57
LPO3310-153MLC	15	0.80	36	0.45	0.45
LPO3310-223MLC	22	1.20	34	0.37	0.37
LPO3310-333MLC	33	1.78	27	0.30	0.30
LPO3310-473MLC	47	2.15	22	0.25	0.25



D03314 Power Wafer®

Part number	Inductance $\pm$ 20% (μ H)	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A)
D03314-102MLC	1.0	0.11	160	2.10	1.70
D03314-152MLC	1.5	0.14	140	2.00	1.40
D03314-222MLC	2.2	0.20	90	1.60	1.30
D03314-332MLC	3.3	0.26	80	1.40	1.20
D03314-472MLC	4.7	0.32	60	1.20	1.10
D03314-682MLC	6.8	0.44	45	0.92	0.80
D03314-822MLC	8.2	0.47	45	0.90	0.75
D03314-103MLC	10	0.52	40	0.80	0.75
D03314-153MLC	15	0.86	30	0.68	0.65
D03314-223MLC	22	1.20	20	0.56	0.50
D03314-333MLC	33	1.62	15	0.51	0.40



LPO4812 Power Wafer®

Part number	Inductance (μ H)	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A)
LPO4812-102MLC	1.0 $\pm$ 20%	0.055	270	1.30	0.85
LPO4812-152MLC	1.5 $\pm$ 20%	0.080	220	1.00	0.85
LPO4812-222MLC	2.2 $\pm$ 20%	0.090	170	0.80	0.85
LPO4812-332MLC	3.2 $\pm$ 20%	0.120	140	0.70	0.80
LPO4812-472MLC	4.7 $\pm$ 20%	0.155	110	0.60	0.80
LPO4812-682MLC	6.8 $\pm$ 20%	0.225	90	0.45	0.78
LPO4812-822MLC	8.2 $\pm$ 20%	0.270	70	0.45	0.77
LPO4812-103KLC	10 $\pm$ 10%	0.300	60	0.40	0.76
LPO4812-153KLC	15 $\pm$ 10%	0.460	50	0.32	0.72
LPO4812-223KLC	22 $\pm$ 10%	0.640	40	0.28	0.59
LPO4812-333KLC	33 $\pm$ 10%	0.850	30	0.22	0.54
LPO4812-473KLC	47 $\pm$ 10%	1.30	28	0.20	0.50
LPO4812-683KLC	68 $\pm$ 10%	1.80	22	0.16	0.39
LPO4812-104KLC	100 $\pm$ 10%	2.60	18	0.13	0.32
LPO4812-154KLC	150 $\pm$ 10%	4.20	14	0.10	0.26
LPO4812-224KLC	220 $\pm$ 10%	5.50	11	0.09	0.24

LPO4815 Power Wafer®

Part number	Inductance (μ H)	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A)
LPO4815-102MLC	1.0 $\pm$ 20%	0.036	230	1.6	1.9
LPO4815-152MLC	1.5 $\pm$ 20%	0.085	200	1.5	1.7
LPO4815-222MLC	2.2 $\pm$ 20%	0.088	150	1.1	1.5
LPO4815-332MLC	3.3 $\pm$ 20%	0.12	115	0.90	1.3
LPO4815-392MLC	3.9 $\pm$ 20%	0.13	105	0.86	1.2
LPO4815-472MLC	4.7 $\pm$ 20%	0.15	95	0.77	1.1
LPO4815-682MLC	6.8 $\pm$ 20%	0.18	72	0.65	1.0
LPO4815-822MLC	8.2 $\pm$ 20%	0.22	65	0.58	0.90
LPO4815-103KLC	10 $\pm$ 10%	0.23	60	0.50	0.85
LPO4815-123KLC	12 $\pm$ 10%	0.31	50	0.45	0.80
LPO4815-153KLC	15 $\pm$ 10%	0.36	45	0.42	0.75
LPO4815-223KLC	22 $\pm$ 10%	0.48	35	0.36	0.70
LPO4815-333KLC	33 $\pm$ 10%	0.71	30	0.28	0.65
LPO4815-393KLC	39 $\pm$ 10%	0.83	25	0.26	0.60
LPO4815-473KLC	47 $\pm$ 10%	1.20	25	0.22	0.55
LPO4815-683KLC	68 $\pm$ 10%	1.40	20	0.20	0.45
LPO4815-104KLC	100 $\pm$ 10%	2.15	15	0.15	0.36
LPO4815-154KLC	150 $\pm$ 10%	3.15	12	0.13	0.30
LPO4815-224KLC	220 $\pm$ 10%	4.30	10	0.11	0.27

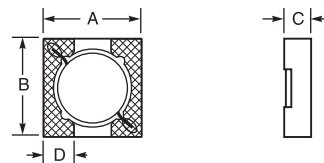
LPO6013 Power Wafer®

Part number	Inductance (μ H)	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A)
LPO6013-102MLC	1.0 $\pm$ 20%	0.06	200	1.9	1.5
LPO6013-152MLC	1.5 $\pm$ 20%	0.07	200	1.6	1.4
LPO6013-222MLC	2.2 $\pm$ 20%	0.08	150	1.3	1.3
LPO6013-332MLC	3.3 $\pm$ 20%	0.11	110	1.1	1.3
LPO6013-392MLC	3.9 $\pm$ 20%	0.13	100	1.0	1.2
LPO6013-472MLC	4.7 $\pm$ 20%	0.15	90	0.90	1.2
LPO6013-682MLC	6.8 $\pm$ 20%	0.20	70	0.70	1.2
LPO6013-822MLC	8.2 $\pm$ 20%	0.22	65	0.70	1.0
LPO6013-103KLC	10 $\pm$ 10%	0.30	60	0.60	1.0
LPO6013-153KLC	15 $\pm$ 10%	0.38	47	0.55	0.85
LPO6013-223KLC	22 $\pm$ 10%	0.52	37	0.45	0.80
LPO6013-333KLC	33 $\pm$ 10%	0.73	30	0.40	0.74
LPO6013-393KLC	39 $\pm$ 10%	0.96	28	0.35	0.67
LPO6013-473KLC	47 $\pm$ 10%	1.0	25	0.30	0.60
LPO6013-683KLC	68 $\pm$ 10%	1.7	21	0.28	0.49
LPO6013-104KLC	104 $\pm$ 10%	3.2	17	0.22	0.35
LPO6013-154KLC	154 $\pm$ 10%	4.3	14	0.19	0.30
LPO6013-224KLC	224 $\pm$ 10%	5.8	10	0.15	0.26
LPO6013-334KLC	334 $\pm$ 10%	7.0	8.0	0.13	0.23
LPO6013-474KLC	474 $\pm$ 10%	10	7.0	0.10	0.20
LPO6013-684KLC	684 $\pm$ 10%	14	5.6	0.09	0.18
LPO6013-105KLC	1000 $\pm$ 10%	21	4.7	0.07	0.13



LPO6610 Power Wafer®

Part number	Inductance $\pm$ 20% (μ H)	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A)
LPO6610-122MLC	1.2	0.08	190	2.1	1.7
LPO6610-152MLC	1.5	0.10	140	1.9	1.5
LPO6610-222MLC	2.2	0.12	115	1.6	1.4
LPO6610-332MLC	3.3	0.16	90	1.3	1.2
LPO6610-472MLC	4.7	0.20	88	1.1	1.1
LPO6610-682MLC	6.8	0.32	66	0.90	0.85
LPO6610-103MLC	10	0.41	55	0.80	0.75
LPO6610-153MLC	15	0.55	42	0.65	0.60
LPO6610-223MLC	22	0.85	38	0.50	0.52
LPO6610-333MLC	33	1.3	29	0.40	0.42
LPO6610-473MLC	47	1.8	22	0.35	0.36
LPO6610-683MLC	68	2.5	18	0.30	0.30
LPO6610-104MLC	100	3.5	14	0.25	0.26
LPO6610-154MLC	150	5.0	12	0.18	0.21
LPO6610-224MLC	220	7.0	10	0.16	0.18
LPO6610-334MLC	330	15.0	8	0.13	0.13



Dimensions (inches mm)

Series	A max	B max	C max	D
D01605T	0.165 4.20	0.216 5.50	0.071 1.80	0.029 0.74
D03314	0.138 3.50	0.138 3.50	0.055 1.40	0.040 1.02
LPO3010	0.126 3.20	0.126 3.20	0.043 1.1	0.035 0.89
LPO3310	0.138 3.50	0.138 3.50	0.044 1.12	0.040 1.02
LPO4812	0.190 4.83	0.181 4.60	0.047 1.20	0.031 0.79
LPO4815	0.190 4.83	0.181 4.60	0.059 1.50	0.031 0.79
LPO6013	0.236 6.0	0.220 5.60	0.051 1.30	0.040 1.02

D05022P



Part number	Inductance ±20% (µH)	Percent tolerance*	DCR max (Ohms)	SRF typ (MHz)	Isat (A)		Irms (A)
					10% drop	20% drop	
D05022P-102MLD	1.0	20	0.009	80	27.6	28.8	8.6
D05022P-222MLD	2.2	20	0.014	80	18.5	19.8	7.1
D05022P-332MLD	3.3	20	0.018	60	14.5	15.5	6.2
D05022P-562MLD	5.6	20	0.020	40	12.5	13.8	5.3
D05022P-822MLD	8.2	20	0.029	30	10.3	11.5	4.8
D05022P-103MLD	10	20	0.031	30	9.4	10.5	4.3
D05022P-153MLD	15	20	0.036	22	7.5	8.2	4.0
D05022P-223MLD	22	20	0.047	20	6.5	7.2	3.5
D05022P-333MLD	33	20	0.066	15	5.2	6.1	3.0
D05022P-473MLD	47	20	0.086	9	4.2	4.7	2.6
D05022P-683_LD	68	20 ,10	0.13	8	3.7	4.1	2.3
D05022P-104_LD	100	20 ,10	0.19	7	3.0	3.4	1.8
D05022P-154_LD	150	20 ,10	0.25	6	2.5	2.8	1.5
D05022P-224_LD	220	20 ,10	0.38	5	2.0	2.3	1.2
D05022P-334_LD	330	20 ,10	0.56	4	1.7	1.9	1.0
D05022P-474_LD	470	20 ,10	0.85	3	1.5	1.7	0.82
D05022P-684_LD	680	20 ,10	1.1	2.5	1.2	1.3	0.72
D05022P-105_LD	1000	20 ,10	1.8	2.0	0.95	1.1	0.56

D03340P High Current



Part number	Inductance ±20% (µH)	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A)
D03340P-103MLD	10	0.040	35	8.0	3.5
D03340P-153MLD	15	0.050	18	7.0	3.0
D03340P-223MLD	22	0.066	13	5.5	2.5
D03340P-333MLD	33	0.080	11	4.0	2.0
D03340P-473MLD	47	0.11	9.0	3.8	1.6
D03340P-683MLD	68	0.17	7.0	3.0	1.2
D03340P-104MLD	100	0.22	5.5	2.5	1.2
D03340P-154MLD	150	0.34	4.5	2.0	0.9
D03340P-224MLD	220	0.44	3.5	1.6	0.7
D03340P-334MLD	330	0.70	3.0	1.2	0.6
D03340P-474MLD	470	0.95	2.5	1.0	0.3
D03340P-684MLD	680	1.15	2.0	1.0	0.2
D03340P-105MLD	1000	2.0	1.5	0.8	0.1



D05010H High Current



Part number	Inductance ±20% (µH)	DCR max (mOhms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A)
D05010H-781MLD	0.78	2.6	156	30	15
D05010H-152MLD	1.5	4.0	100	25	15
D05010H-222MLD	2.2	6.1	75	20	12
D05010H-332MLD	3.3	8.6	60	17	10
D05010H-392MLD	3.9	10	55	15	9.0
D05010H-472MLD	4.7	14	40	13	8.4
D05010H-602MLD	6.0	17	35	12	7.5
D05010H-782MLD	7.8	18	35	11	7.5
D05010H-103MLD	10	26	28	10	6.0
D05010H-123MLD	12	28	26	8.5	5.2
D05010H-153MLD	15	32	20	8	4.4
D05010H-223MLD	22	47	20	7.0	3.5
D05010H-333MLD	33	66	15	5.5	3.0
D05010H-473MLD	47	86	9.0	4.5	2.6
D05010H-683MLD	68	130	8.0	3.5	2.3
D05010H-104MLD	100	190	7.0	3.0	1.8
D05010H-154MLD	150	250	6.0	2.6	1.5
D05010H-224MLD	220	380	5.0	2.4	1.2
D05010H-334MLD	330	560	4.0	1.9	1.0
D05010H-474MLD	470	850	3.0	1.4	0.82
D05010H-684MLD	680	1100	2.5	1.2	0.72
D05010H-105MLD	1000	1800	2.0	1.0	0.56



D01607B Backlight



Part number	Inductance ±20% (mH)	DCR max (Ohms)	Insulation core-winding (mOhms)	Isat (mA) 10% drop	Irms (mA)
D01607B-105MLC	1.0	19	>10	100	150
D01607B-155MLC	1.5	21	>10	75	140
D01607B-225MLC	2.2	42	>10	60	100
D01607B-335MLC	3.3	52	>10	50	90
D01607B-475MLC	4.7	80	>10	45	75
D01607B-685MLC	6.8	125	>10	40	60



D01813H High Current



Part number	Inductance ref (µH)	Inductance ±20% (µH)	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 30% drop	Irms (A)
D01813H-181MLD	0.18	0.18	0.003	800	14.0	10.0
D01813H-331MLD	0.33	0.33	0.004	600	10.0	7.0
D01813H-561MLD	0.56	0.56	0.010	200	7.7	6.0
D01813H-122MLD	1.2	1.15	0.017	140	5.3	4.4
D01813H-222MLD	2.2	2.06	0.035	100	3.5	3.1
D01813H-332MLD	3.3	3.20	0.040	80	3.0	2.7
D01813H-472MLD	4.7	4.70	0.054	50	2.6	2.2
D01813H-682MLD	6.8	6.80	0.080	45	2.2	1.8
D01813H-822MLD	8.2	8.20	0.092	42	2.0	1.6
D01813H-103MLD	10	9.55	0.110	40	1.9	1.5
D01813H-153MLD	15	15.3	0.17	30	1.5	1.2
D01813H-223MLD	22	22.6	0.25	25	1.2	1.0
D01813H-333MLD	33	32.5	0.35	20	0.99	0.82
D01813H-473MLD	47	48.1	0.47	15	0.87	0.72



D03316H High Current



Part number	Inductance ±20% (µH)	Percent tolerance*	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A)
D03316H-121MLD	0.12	20	0.0015	200	28.0	17.0
D03316H-331MLD	0.33	20	0.002	200	20.0	16.0
D03316H-681MLD	0.68	20	0.005	200	13.0	12.0
D03316H-102MLD	1.0	20	0.006	100	11.0	10.0
D03316H-152MLD	1.5	20	0.008	90	9.0	9.0
D03316H-222_LD	2.2	20 ,10	0.011	80	7.8	7.4
D03316H-272_LD	2.7	20 ,10	0.012	65	7.0	6.6
D03316H-332_LD	3.3	20 ,10	0.014	60	6.4	5.9
D03316H-392_LD	3.9	20 ,10	0.015	50	5.9	5.3
D03316H-472_LD	4.7	20 ,10	0.018	45	5.4	4.8

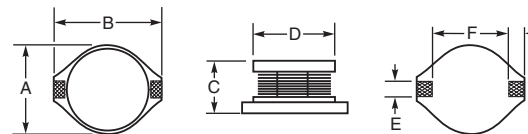


D05040H High Current



Part number	Inductance (µH)	DCR max (mOhms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A)
D05040H-282MLD	2.8 ±20%	5.2	65	33.4	12.1
D05040H-392MLD	3.9 ±20%	6.0	40	26.8	11.2
D05040H-682MLD	6.8 ±20%	9.0	30	22.5	9.6
D05040H-103MLD	10 ±20%	11	22	17.8	8.6
D05040H-123MLD	12 ±20%	13	21	15.9	7.4
D05040H-153MLD	15 ±20%	20	18	13.8	6.5
D05040H-183MLD	18 ±20%	22	14	13.2	6.0
D05040H-223MLD	22 ±20%	24	13	11.8	5.7
D05040H-333MLD	33 ±20%	37	10	9.6	4.5
D05040H-473MLD	47 ±20%	52	8.0	7.8	3.7
D05040H-683MLD	68 ±20%	67	7.0	6.7	3.4
D05040H-104MLD	100 ±20%	115	6.0	5.6	2.8
D05040H-334KLD	330 ±10%	325	3.0	3.0	1.5
D05040H-684KLD	680 ±10%	780	1.6	2.0	1.1
D05040H-145KLD	1400 ±10%	1300	1.0	1.5	0.7

* Bold numbers indicate tolerances carried in stock. When ordering, please replace underscore in part number with the proper tolerance code: K = 10%, M = 20%. (e.g. D05022P-683**K**LD for a 10% tolerance part.)



Dimensions (inches mm)

Series	A max	B max	C	D	E	F	G
D01607B	0.175 4,45	0.260 6,60	0.098 2,49	0.155 3,94	0.050 1,27	0.170 4,32	0.040 1,02
D01813H	0.240 6,10	0.350 8,89	0.197 5,00	0.180 4,60	0.160 4,06	0.230 5,84	0.075 1,91
D03340P	0.370 9,40	0.510 12,95	0.450 11,43	0.330 8,38	0.100 2,54	0.300 7,62	0.100 2,54
D05010H	0.600 15,24	0.730 18,54	0.315 8,00	0.500 12,70	0.200 5,08	0.580 14,73	0.065 1,65
D05022P	0.600 15,24	0.730 18,54	0.280 7,11	0.500 12,70	0.100 2,54	0.500 12,70	0.100 2,54
D05040H	0.640 16,26	0.880 22,35	0.472 12,00	0.500 12,70	0.450 11,43	0.565 14,35	0.125 3,18



Through-Hole Power Inductors

The Coilcraft series of through-hole power inductors offer a wide range of inductance values and current ratings in a variety of sizes. These efficient, low cost inductors are intended for DC-DC converters and are suitable for many other power and filtering applications. Body sizes are as small as 8 mm diameter (DR0806) with heights ranging from 8 mm to 16 mm. Inductance values range from 0.9 μ H to 18 mH. The RFS series (three sizes) feature magnetic shielding.

RFS1113 Shielded

Part number	Inductance $\pm 20\%$ (μ H)	DCR (Ohms)		SRF typ (MHz)	Isat (A)			Irms (A)	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
RFS1113-682ME	6.8	0.014	0.016	45.0	6.6	8.0	9.1	5.65	7.80
RFS1113-103ME	10	0.017	0.020	30.2	5.4	6.6	7.4	5.20	7.20
RFS1113-153ME	15	0.020	0.023	19.8	4.0	5.0	5.8	4.80	6.60
RFS1113-223ME	22	0.023	0.026	11.8	3.5	4.2	4.8	4.40	6.10
RFS1113-273ME	27	0.032	0.036	9.6	3.0	3.6	4.2	3.60	5.05
RFS1113-333ME	33	0.045	0.052	8.8	2.8	3.5	4.0	3.20	4.40
RFS1113-393ME	39	0.058	0.064	8.4	2.4	3.1	3.6	2.75	3.75
RFS1113-473ME	47	0.081	0.089	7.9	2.2	2.9	3.3	2.30	3.20
RFS1113-104ME	100	0.184	0.200	4.0	1.5	1.9	2.2	1.55	2.10
RFS1113-224ME	220	0.281	0.295	2.8	1.0	1.3	1.5	1.25	1.65
RFS1113-564ME	560	0.709	0.744	1.8	0.68	0.86	0.98	0.73	1.00
RFS1113-105ME	1000	1.80	1.89	1.3	0.51	0.63	0.73	0.46	0.60
RFS1113-275ME	2700	3.76	3.95	0.72	0.33	0.40	0.45	0.30	0.40

RFS1317 Shielded

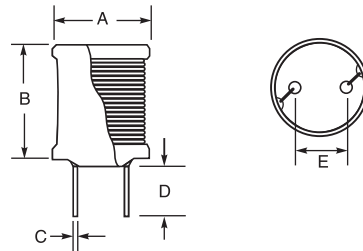
Part number	Inductance $\pm 10\%$	DCR max (Ohms)	SRF typ (MHz)	Isat (A)			Irms (A)	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
RFS1317-273KL	27 μ H	0.033	20.95	5.2	6.4	7.2	4.10	5.70
RFS1317-333KL	33 μ H	0.050	18.18	4.5	5.7	6.4	3.55	4.85
RFS1317-473KL	47 μ H	0.055	12.93	3.9	4.7	5.4	3.20	4.50
RFS1317-683KL	68 μ H	0.068	6.49	3.1	3.8	4.3	3.00	4.05
RFS1317-823KL	82 μ H	0.071	5.03	2.8	3.6	4.0	2.75	3.90
RFS1317-104KL	100 μ H	0.079	3.45	2.6	3.2	3.6	2.65	3.65
RFS1317-124KL	120 μ H	0.110	3.18	2.4	2.9	3.2	2.20	3.15
RFS1317-154KL	150 μ H	0.144	2.92	2.2	2.6	2.9	2.05	2.90
RFS1317-184KL	180 μ H	0.172	2.27	1.9	2.4	2.7	1.85	2.65
RFS1317-224KL	220 μ H	0.239	2.03	1.7	2.1	2.4	1.50	2.05
RFS1317-274KL	270 μ H	0.263	1.66	1.7	1.9	2.2	1.50	2.05
RFS1317-334KL	330 μ H	0.286	1.55	1.5	1.7	2.0	1.40	1.90
RFS1317-394KL	390 μ H	0.317	1.39	1.3	1.6	1.8	1.35	1.85
RFS1317-474KL	470 μ H	0.409	1.20	1.3	1.4	1.6	1.10	1.60
RFS1317-564KL	560 μ H	0.524	1.12	1.1	1.3	1.5	0.95	1.35
RFS1317-684KL	680 μ H	0.617	0.955	1.0	1.2	1.4	0.86	1.20
RFS1317-824KL	820 μ H	0.834	0.827	0.89	1.0	1.2	0.75	1.04
RFS1317-105KL	1.0 mH	1.02	0.725	0.83	1.0	1.1	0.68	0.97
RFS1317-125KL	1.2 mH	1.19	0.647	0.72	0.94	1.0	0.60	0.81
RFS1317-155KL	1.5 mH	1.36	0.599	0.66	0.82	0.91	0.59	0.78
RFS1317-185KL	1.8 mH	1.49	0.566	0.60	0.78	0.87	0.54	0.74
RFS1317-225KL	2.2 mH	2.01	0.496	0.56	0.69	0.77	0.45	0.62
RFS1317-275KL	2.7 mH	2.22	0.439	0.51	0.62	0.70	0.43	0.61
RFS1317-335KL	3.3 mH	2.38	0.435	0.46	0.61	0.68	0.41	0.57
RFS1317-395KL	3.9 mH	3.38	0.373	0.41	0.51	0.57	0.34	0.49
RFS1317-475KL	4.7 mH	3.68	0.352	0.38	0.48	0.54	0.33	0.46
RFS1317-565KL	5.6 mH	4.03	0.320	0.34	0.44	0.49	0.32	0.46
RFS1317-685KL	6.8 mH	5.43	0.288	0.32	0.40	0.45	0.26	0.38
RFS1317-825KL	8.2 mH	5.88	0.274	0.31	0.39	0.44	0.25	0.35
RFS1317-106KL	10 mH	6.55	0.254	0.28	0.33	0.37	0.24	0.35

RFS1412 Shielded

Part number	Inductance (μ H)	DCR (Ohms)		SRF typ (MHz)	Isat (A)			Irms (A)	
		nom	max		10% drop	20% drop	30% drop	20°C rise	40°C rise
RFS1412-103ME	10 $\pm 20\%$	0.016	0.018	36	6.2	7.4	8.1	5.80	7.90
RFS1412-153LE	15 $\pm 15\%$	0.019	0.022	21	5.0	6.1	6.8	5.05	6.90
RFS1412-223KE	22 $\pm 10\%$	0.029	0.032	13	4.4	5.2	5.7	4.05	5.60
RFS1412-333KE	33 $\pm 10\%$	0.043	0.047	8.7	3.4	4.1	4.6	3.25	4.50
RFS1412-393KE	39 $\pm 10\%$	0.060	0.066	7.7	3.1	3.9	4.3	2.85	3.90
RFS1412-473KE	47 $\pm 10\%$	0.066	0.072	6.7	3.0	3.5	3.9	2.65	3.65
RFS1412-104KE	100 $\pm 10\%$	0.083	0.091	5.1	2.0	2.4	2.6	2.35	3.25
RFS1412-224KE	220 $\pm 10\%$	0.190	0.200	3.3	1.3	1.6	1.8	1.55	2.35
RFS1412-564KE	560 $\pm 10\%$	0.484	0.508	1.8	0.82	1.0	1.1	0.92	1.28
RFS1412-105KE	1000 $\pm 10\%$	1.01	1.06	1.3	0.63	0.76	0.84	0.64	0.86
RFS1412-106KE	10,000 $\pm 10\%$	9.58	9.87	0.36	0.20	0.25	0.27	0.20	0.28

DC1012

Part number	Inductance $\pm 10\%$ (μ H)	DCR max (Ohms)	SRF typ (MHz)	Isat (A)			Irms (A)	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
DC1012-103L	10	0.026	35	4.80	5.58	5.94	3.5	4.6
DC1012-123L	12	0.030	25	4.52	5.20	5.60	3.1	4.3
DC1012-153L	15	0.035	18	3.92	4.50	4.84	2.8	4.2
DC1012-183L	18	0.038	15	3.65	4.25	4.47	2.7	3.7
DC1012-223L	22	0.046	13	3.37	3.81	4.17	2.6	3.6
DC1012-273L	27	0.070	12	2.97	3.37	3.64	2.2	2.9
DC1012-333L	33	0.080	11	2.67	3.10	3.37	2.0	2.7
DC1012-393L	39	0.088	10	2.45	2.85	3.05	1.9	2.6
DC1012-473L	47	0.100	9.0	2.25	2.65	2.85	1.8	2.4
DC1012-563L	56	0.15	8.0	2.06	2.35	2.48	1.7	2.1
DC1012-683L	68	0.17	7.0	1.90	2.08	2.28	1.6	1.9
DC1012-823L	82	0.20	6.0	1.75	2.03	2.10	1.5	1.7
DC1012-104L	100	0.22	5.5	1.56	1.76	1.87	1.2	1.5
DC1012-124L	120	0.29	5.0	1.30	1.62	1.72	0.92	1.4
DC1012-154L	150	0.34	4.5	1.28	1.45	1.54	0.90	1.3
DC1012-184L	180	0.38	4.0	1.17	1.34	1.44	0.81	1.2
DC1012-224L	220	0.44	3.5	1.07	1.22	1.31	0.72	1.0
DC1012-274L	270	0.62	3.25	0.96	1.11	1.19	0.70	0.90
DC1012-334L	330	0.70	3.0	0.86	0.99	1.06	0.68	0.88



Dimensions (inches mm)

Series	A max	B max	C	D	E
DC1012	0.39 10.0	0.60 15.2	0.024 0.60	0.157 4.0	0.197 5.0
DR0608	0.30 7.50	0.39 10.0	0.024 0.60	0.157 4.0	0.138 3.5
DR0810	0.41 10.5	0.47 12.0	0.024 0.60	0.157 4.0	0.197 5.0
RFB0807	0.35 8.80	0.30 7.50	0.024 0.60	0.157 4.0	0.197 5.0
RFB0810	0.37 9.50	0.45 11.5	0.024 0.60	0.157 4.0	0.197 5.0
RFB1010	0.43 11.0	0.45 11.5	0.031 0.80	0.157 4.0	0.236 6.0
RFC0807	0.35 8.80	0.30 7.50	0.024 0.60	0.197 5.0	0.197 5.0
RFC0810	0.37 9.50	0.45 11.5	0.024 0.60	0.197 5.0	0.197 5.0
RFC1010	0.43 11.0	0.45 11.5	0.031 0.80	0.197 5.0	0.236 6.0
RFS1113	0.43 11.0	0.48 12.3	0.031 0.80	0.189 4.8	0.197 5.0
RFS1317	0.52 13.3	0.63 16.0	0.031 0.80	0.189 4.8	0.197 5.0
RFS1412	0.54 13.7	0.46 11.7	0.031 0.80	0.189 4.8	0.295 7.5



Step-Up Transformers

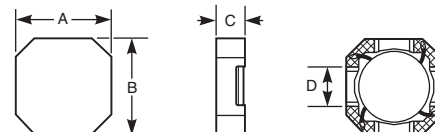
The LPR shielded coupled inductors are low profile miniature parts. Their excellent coupling coefficient ($k \geq 0.95$) makes them ideal for use as flyback transformers in DC-DC converters or as coupled inductors in buck regulators to provide multiple outputs. The wide selection of turns ratios makes them suitable for a variety of voltage step-up and step-down applications. They can also be used in autotransformer applications. The high Isat and low DCR ratings provide high efficiency and excellent current handling in a rugged, low cost design. Custom inductance values and turns ratios may be available upon request.

LPR4012

Part number	Primary (L1) Inductance $\pm 20\%$ (μ H)	Turns ratio	DCR max (Ohms)		SRF typ (MHz)	Isat (A)			Irms (A)	
			L1	L2		10% drop	20% drop	30% drop	20°C rise	40°C rise
LPR4012-202AMRC	2.0	1:1.5	0.240	0.325	61.5	1.70	1.73	1.74	1.10	1.45
LPR4012-202BMR	2.0	1:2	0.240	0.480	49.4	1.70	1.73	1.74	1.10	1.45
LPR4012-202DMRC	2.0	1:3	0.240	1.15	31.0	1.70	1.73	1.74	1.10	1.45
LPR4012-202LMRC	2.0	1:10	0.240	11.62	7.43	1.70	1.73	1.74	1.10	1.45
LPR4012-103BMR	10.0	1:2	0.600	1.55	19.5	0.62	0.64	0.65	0.52	0.70
LPR4012-103DMRC	10.0	1:3	0.600	3.71	12.8	0.62	0.64	0.65	0.52	0.70
LPR4012-223BMR	22.0	1:2	1.16	3.65	11.2	0.43	0.45	0.46	0.43	0.57
LPR4012-223DMRC	22.0	1:3	1.16	7.08	8.00	0.43	0.45	0.46	0.43	0.57

LPR6235

Part number	Primary (L1) Inductance $\pm 20\%$ (μ H)	Turns ratio	DCR max (Ohms)		SRF typ (kHz)	Isat (A) 10% drop
			L1	L2		
LPR6235-253LMRC	25	1:10	0.74	13.7	1300	1.3
LPR6235-253PMRC	25	1:20	0.20	72	580	0.7
LPR6235-123QMRC	12.5	1:50	0.085	200	360	0.9
LPR6235-752RMRC	7.5	1:90	0.085	285	257	1.6
LPR6235-752SMRC	7.5	1:100	0.085	340	230	1.6



Dimensions (inches mm)

Series	A max	B max	C	D
LPR4012	0.158 4,02	0.158 4,02	0.0473 1,2	0.060 1,52
LPR6235	0.239 6,08	0.239 6,08	0.138 3,50	0.060 1,52

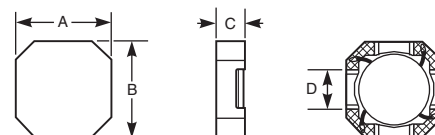


Miniature Flyback Transformers

With 1500 Vdc (1000 Vrms) isolation and a small package size, the LPD5030V series is ideal for use in high density isolated circuit applications. These miniature transformers provide tight coupling, high inductance and excellent current handling. Functional Safety Listed by UL. Functional insulation class for TNV-1 to SELV applications. Functional insulation with a maximum 60 Vdc, 42.4 V peak input/output voltages with working voltages up to 210 Vdc. (Report #E219588-A6)

LPD5030V

Part number	Inductance at 0 A $\pm 20\%$ (μ H)	Inductance at Ipk $\pm 20\%$ (μ H)	DCR max (Ohms)	Leakage inductance typ (μ H)	Isolation (Vrms)	Turns ratio	Ipk (A)
LPD5030V-472MRC	4.7	3.3	0.322	0.109	1000	1:1	1.90
LPD5030V-682MRC	6.8	4.7	0.395	0.109	1000	1:1	1.55
LPD5030V-103MRC	10	7.0	0.490	0.130	1000	1:1	1.30
LPD5030V-333MRC	33	23	0.895	0.195	1000	1:1	0.67
LPD5030V-154MRC	150	105	3.82	0.456	1000	1:1	0.31
LPD5030V-224MRC	220	154	5.25	0.541	1000	1:1	0.24



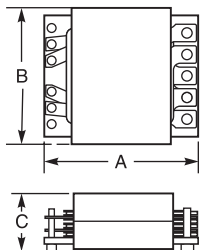
Dimensions (inches mm)

Series	A max	B max	C max	D
LPD5030V	0.189 4,80	0.189 4,80	0.118 3,0	0.060 1,52



Planar Transformers

These high efficiency planar transformers offer excellent DCR and very low leakage inductance in a low-profile package. The POE120PL is rated for 120 Watts, PL160 Series is rated for 160 Watts and the PL300 Series is rated for 300 Watts. The POE120PL is designed for active clamp forward topology, and the PL160 and PL300 can be used in forward, push-pull and full-bridge/half-bridge topologies. An auxiliary winding is included in the POE120PL and is optional on the PL160 and PL300.



Dimensions (inches mm)

Series	A max	B max	C max
PL160	0.92 23,37	0.82 20,83	0.352-0.375 8,94-9,53
PL300	1.16 29,46	1.05 26,67	0.410-0.475 10,4-12,1
POE120PL	0.92 23,37	0.82 20,83	0.352-0.375 8,94-9,53



PL300/PL160/POE120PL



Part number	Turns			Primary inductance min (μ H)	Leakage inductance max (μ H)	DCR max (mOhms)			Volt-time product typ (V μ sec)
	Pri	Sec	Aux			Pri	Sec	Aux	
PL300-100L	8	4	Opt.	211	0.25	14.4	4.2	—	206
PL300-101L	10	4	Opt.	330	0.35	18.0	4.2	—	258
PL300-102L	12	4	Opt.	423	0.50	21.26	4.2	—	310
PL300-103L	14	4	Opt.	588	0.75	24.6	4.2	—	361
PL300-104L	16	4	Opt.	768	1.0	27.6	4.2	—	413
PL160-100L	8	4	Opt.	153	0.35	29.4	6.8	—	150
PL160-101L	9	4	Opt.	194	0.40	33.2	6.8	—	168
PL160-102L	10	4	Opt.	240	0.45	37.0	6.8	—	187
PL160-103L	11	4	Opt.	290	0.55	40.0	6.8	—	206
PL160-104L	12	4	Opt.	345	0.55	43.0	6.8	—	224
POE120PL-33L	12	2	7	40	0.70	27.6	1.26	270	150
POE120PL-50L	8	2	5	40	0.31	18.9	1.26	123	100
POE120PL-12L	8	4	4	40	0.37	18.9	6.80	58.5	100
POE120PL-24L	8	8	4	40	0.39	18.9	13.6	58.5	100

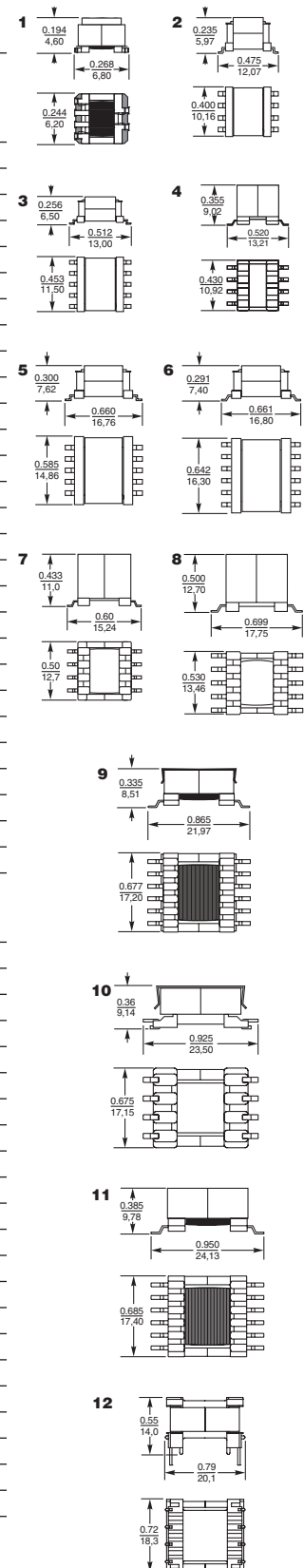


Flyback Transformers

Many Coilcraft flyback transformers have been specified and approved by IC manufacturers to work with their chipsets. These transformers are available with a variety of turns ratios to meet many different requirements. PoE transform-

ers are designed for IEEE 802.3af-compliant applications and IEEE 802.3 for high power PoE applications. Capacitor charging transformers provide output up to 500 V. Custom transformers are also available.

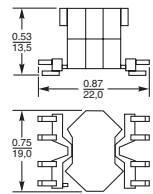
Part number	Power (W)	Output	Aux / bias	Nominal freq. (kHz)	Turns ratio 0 A		L at Dim (µH)	dwg	Designed for
					pri : sec	pri : aux			
Telecom input (36 – 72 Vdc)									
B0226-ELD	2.0	12 V, 167 mA 12 V, 3 mA	—	1000	1 : 0.36 1 : 0.36	—	120	2	ON Semi NCP1030
POE30P-33LD	3.0	3.3 V, 0.91 A	12 V, 20 mA	250	1 : 0.19	1 : 0.70	310	4	PoE
C1590-ALD	3.0	3.3 V, 0.91 A	12 V, 20 mA	250	1 : 0.19	1 : 0.70	310	4	TI LM5070
POE30P-50LD	3.0	5.0 V, 0.6 A	12 V, 20 mA	250	1 : 0.28	1 : 0.70	310	4	PoE
C1591-ALD	3.0	5.0 V, 0.6 A	12 V, 20 mA	250	1 : 0.28	1 : 0.70	310	4	TI LM5070
POE30P-12LD	3.0	12 V, 0.25 A	12 V, 20 mA	250	1 : 0.70	1 : 0.70	310	4	PoE
C1592-ALD	3.0	12 V, 0.25 A	12 V, 20 mA	250	1 : 0.70	1 : 0.70	310	4	TI LM5070
POE60F-18LD	6.0	1.8 V, 3.3 A	12 V, 20 mA	250	1 : 0.07	1 : 0.36	75	9	PoE
POE60C-18LD	6.0	1.8 V, 3.3 A	12 V, 20 mA	250	1 : 0.063	1 : 0.344	167	6	PoE
POE60D-18LD	6.0	1.8 V, 3.3 A	12 V, 20 mA	250	1 : 0.063	1 : 0.344	75	6	PoE
POE60F-25LD	6.0	2.5 V, 2.4 A	12 V, 20 mA	250	1 : 0.08	1 : 0.33	55	9	PoE
POE60C-25LD	6.0	2.5 V, 2.4 A	12 V, 20 mA	250	1 : 0.083	1 : 0.333	177	6	PoE
POE60D-25LD	6.0	2.5 V, 2.4 A	12 V, 20 mA	250	1 : 0.083	1 : 0.333	80	6	PoE
POE60F-33LD	6.0	3.3 V, 1.8 A	12 V, 20 mA	250	1 : 0.11	1 : 0.36	65	9	PoE
POE60C-33LD	6.0	3.3 V, 1.8 A	12 V, 20 mA	250	1 : 0.100	1 : 0.333	184	6	PoE
POE60D-33LD	6.0	3.3 V, 1.8 A	12 V, 20 mA	250	1 : 0.100	1 : 0.333	85	6	PoE
POE60F-50LD	6.0	5.0 V, 1.2 A	12 V, 20 mA	250	1 : 0.15	1 : 0.35	60	9	PoE
POE60C-50LD	6.0	5.0 V, 1.2 A	12 V, 20 mA	250	1 : 0.143	1 : 0.343	193	6	PoE
POE60D-50LD	6.0	5.0 V, 1.2 A	12 V, 20 mA	250	1 : 0.143	1 : 0.357	90	6	PoE
POE60F-12LD	6.0	12 V, 0.5 A	12 V, 20 mA	250	1 : 0.35	1 : 0.35	55	9	PoE
POE60C-12LD	6.0	12.0 V, 0.5 A	12 V, 20 mA	250	1 : 0.333	1 : 0.333	204	6	PoE
POE60D-12LD	6.0	12.0 V, 0.5 A	12 V, 20 mA	250	1 : 0.333	1 : 0.333	95	6	PoE
A0009-ALD	6.6	3.3 V, 3 A	24 V	100	1 : 0.333	1 : 1	100	13	TI LM5000
POE70P-33LD	7.0	3.3 V, 2.12 A	12 V, 20 mA	250	1 : 0.19	1 : 0.667	155	7	PoE
C1587-ALD	7.0	3.3 V, 2.12 A	12 V, 20 mA	10	1 : 0.19	1 : 0.667	155	7	TI LM5070
POE70P-50LD	7.0	5.0 V, 1.4 A	12 V, 20 mA	250	1 : 0.262	1 : 0.667	155	7	PoE
C1588-ALD	7.0	5.0 V, 1.4 A	12 V, 20 mA	10	1 : 0.262	1 : 0.667	155	7	TI LM5070
POE70P-12LD	7.0	12 V, 0.6 A	12 V, 20 mA	250	1 : 0.667	1 : 0.667	155	7	PoE
C1589-ALD	7.0	12 V, 0.6 A	12 V, 20 mA	10	1 : 0.667	1 : 0.667	155	7	TI LM5070
D1766-ALD	10	3.3 V, 5 A 2.5 V, 1.5 A 1.8 V, 2.5 A	—	200	1 : 0.104 1 : 0.042 1 : 0.042	—	221	14	Linear LTC4267
FA2671-ALD	10	3.3 V, 3 A	—	350	1 : 0.333	—	40	7	Silicon Labs Si3402
C1048-ALD	10	5.0 V, 2 A	15 V, 0.2 A	250	1 : 0.12	1 : 0.47	94	9	Linear LT1725
FA2672-ALD	10	5.0 V, 2 A	—	350	1 : 0.25	—	40	7	Silicon Labs Si3402
FA2732-ALD	10	12 V, 0.83 A	—	350	1 : 1	—	40	7	Silicon Labs Si3402
FA2519-ALD	11	3.3 V, 3.3 A	10 V, 20 mA	250	1 : 0.20	1 : 0.60	55	8	TI LM5071, LM5072
POE13F-18LD	13	1.8 V, 7.2 A	12 V, 20 mA	250	1 : 0.07	1 : 0.36	45	9	PoE
POE13F-25LD	13	2.5 V, 5.2 A	12 V, 20 mA	250	1 : 0.08	1 : 0.33	35	9	PoE
POE13F-33LD	13	3.3 V, 3.9 A	12 V, 20 mA	250	1 : 0.11	1 : 0.36	40	9	PoE
POE13P-33LD	13	3.3 V, 4.0 A	12 V, 20 mA	250	1 : 0.166	1 : 0.50	127	8	PoE
POE13F-50LD	13	5.0 V, 2.6 A	12 V, 20 mA	250	1 : 0.15	1 : 0.35	40	9	PoE
POE13P-50LD	13	5.0 V, 2.6 A	12 V, 20 mA	250	1 : 0.25	1 : 0.50	127	8	PoE
DA2362-ALD	13	5.0 V, 2.6 A	12 V, 20 mA	250	1 : 0.25	1 : 0.594	127	8	Freescale MC34670
GA3372-ALD	13	5.0 V, 2.6 A	10 V, 20 mA	250	1 : 0.25	1 : 0.50	102	8	TI LM5015
POE13F-12LD	13	12 V, 1.1 A	12 V, 20 mA	250	1 : 0.35	1 : 0.35	35	9	PoE
POE13P-12LD	13	12 V, 1.08 A	12 V, 20 mA	250	1 : 0.50	1 : 0.50	127	8	PoE
POE13F-19LD	13	19.5 V, 0.67 A	12 V, 20 mA	250	1 : 0.57	1 : 0.35	37	9	PoE
POE13P-19LD	13	19.5 V, 0.67 A	12 V, 20 mA	250	1 : 0.567	1 : 0.50	127	8	PoE
POE13F-24LD	13	24 V, 0.54 A	12 V, 20 mA	250	1 : 0.67	1 : 0.33	37	8	PoE
POE13P-24LD	13	24 V, 0.54 A	12 V, 20 mA	250	1 : 0.667	1 : 0.50	127	8	PoE
B0695-ALD	15	3.3 V, 4.5 A	12 V	10	1 : 0.23	1 : 0.69	110	14	TI LM5020
C1023-ALD	15	3.3 V, 4.5 A	24 V	10	1 : 0.19	1 : 0.69	110	8	TI LM5070
POE300F-33LD	30	3.3 V, 9 A	12 V, 20 mA	250	1 : 0.09	1 : 0.33	42	14	PoE+



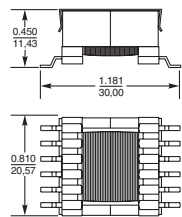
Visit www.coilcraft.com for forward-mode, gate-drive, isolation transformers and power factor magnetics.

Part number	Power (W)	Output	Aux / bias	Nominal freq. (kHz)	Turns ratio 0 A		L at Dim (µH)	dwg	Designed for
					pri : sec	pri : aux			
Telecom input (36 – 72 Vdc) (continued)									
POE300F-50LD	30	5.0 V, 6 A	12 V, 20 mA	250	1 : 0.14	1 : 0.33	42	14	PoE+
POE300F-12LD	30	12 V, 2.5 A	12 V, 20 mA	250	1 : 0.33	1 : 0.33	42	14	PoE+
MA5475-AL	30	15 V, 2 A	12 V, 20 mA	100	1 : 0.24	1 : 0.20	180	14	Maxim MAX17595
POE300F-19LD	30	19.5 V, 1.5 A	12 V, 20 mA	250	1 : 0.56	1 : 0.33	42	14	PoE+
POE300F-24LD	30	24 V, 1.25 A	12 V, 20 mA	250	1 : 0.67	1 : 0.33	42	14	PoE+
Telecom input (36 – 57 Vdc)									
C1453-ALD	5.0	3.3 V, 1.5 A	10 V	1000	1 : 0.166	1 : 0.5	50	3	TI PMP717
DA2062-ALD	6.6	3.3 V, 2 A	14 V	400	1 : 0.1	1 : 0.4	120	5	Power Integrations DPA423G
HA3801-ALD	10	3.3 V, 3 A	10 V, 20 mA	125	1 : 0.154	1 : 0.5	166.5	9	TI TPS23753
HA3802-BLD	10	5.0 V, 2 A	10 V, 20 mA	125	1 : 0.25	1 : 0.444	150	9	TI TPS23753
NA6223-ALD	10	5.0 V, 2 A	10 V, 20 mA	1	1 : 0.167	1 : 0.361	180	8	TI TPS23753A
PA6340-ALD	10	5.0 V, 2 A	10 V, 20 mA	1	1 : 0.167	1 : 0.361	133	8	TI TPS23753
HA3803-BLD	10	12 V, 0.83 A	10 V, 20 mA	125	1 : 0.5	1 : 0.5	166.5	9	TI TPS23753
HA3905-CLD	13	5.0 V, 2.5 A	12 V, 20 mA	250	1 : 0.267	1 : 0.735	27	8	Microsemi UC3844
C1495-ALD	13	3.3 V, 4.0 A	12 V, 20 mA	250	1 : 0.166	1 : 0.50	127	8	TI LM5070
C1585-ALD	13	5.0 V, 2.6 A	12 V, 20 mA	250	1 : 0.25	1 : 0.50	127	8	TI LM5070
C1586-ALD	13	12 V, 1.08 A	12 V, 20 mA	250	1 : 0.50	1 : 0.50	127	8	TI LM5070
FA2805-CLD	15	5.0 V, 3 A	—	350	1 : 0.40	—	40	8	Silicon Labs Si3400/3401
FA2924-ALD	15	3.3 V, 4.5 A	—	350	1 : 0.31	—	40	8	Silicon Labs Si3400/3401
FA2925-ALD	15	12 V, 1.25 A	—	350	1 : 1	—	40	8	Silicon Labs Si3400/3401
FA2706-BLD	20	3.3 V, 6 A	10 V	250	1 : 0.147	1 : 0.235	77.8	11	STMicro PM8800
FA2707-BLD	20	5 V, 4 A	10 V	250	1 : 0.206	1 : 0.235	77.8	11	STMicro PM8800
JA4372-ALD	25	3.3 V, 7.6 A	11.2 V 20 mA	250	1 : 0.08	1 : 0.28	67.5	14	TI TPS23754
JA4387-ALD	25	12 V, 2.08 A	11.2 V 20 mA	250	1 : 0.25	1 : 0.25	66	14	TI TPS23754
GA3568-DLD	30	3.3 V, 9.1 A	5 V, 20 mA	300	1 : 0.167	1 : 0.29	60	14	Akros AS1135
Telecom extended input (42 – 57 Vdc)									
JA4173-ALD	20	3.3 V, 6 A	10 V, 20 mA	250	1 : 0.156	1 : 0.50	100	8	STMicro PM8803
HA3691-ALD	20	5 V, 4 A	10 V, 20 mA	250	1 : 0.25	1 : 0.469	100	8	STMicro PM8800
Telecom extended input (10 – 57 Vdc)									
HA3809-ALD	30	3.3 V, 9.1 A	5 V, 20 mA	300	1 : 0.176	1 : 0.29	30	14	Akros AS1135
Telecom extended input (14 – 60 Vdc)									
DA2257-ALD	11.6	3.3 V, 2 A 5.0 V, 1 A	10 V, 50 mA	250	1 : 0.167 1 : 0.28	1 : 0.5	35	8	TI LM5071
Telecom extended input (16 – 32 Vdc)									
FA2636-ALD	5.0	5.0 V, 1 A	7.5 V	250	1 : 0.25	1 : 0.38	160	9	TI LM5001
Telecom extended input (18 – 57 Vdc)									
FA2677-ALD	25	3.3 V, 7.5 A	11 V, 20 mA	250	1 : 0.12	1 : 0.41	50	14	TI LM5072
FA2898-ALD	25	5.0 V, 5 A	11 V, 20 mA	250	1 : 0.18	1 : 0.41	50	14	TI LM5072
FA2899-ALD	25	9 V, 2.8 A	11 V, 20 mA	250	1 : 0.35	1 : 0.41	50	14	TI LM5072
FA2900-ALD	25	12 V, 2.1 A	11 V, 20 mA	250	1 : 0.47	1 : 0.41	50	14	TI LM5072
FA2901-ALD	25	15 V, 1.7 A	11 V, 20 mA	250	1 : 0.59	1 : 0.41	50	14	TI LM5072
A9967-ALD	30	15 V, 2 A	1.25 V	100	1 : 0.667	1 : 0.50	10	14	Linear LT1725
Telecom extended input (18 – 72 Vdc)									
C1099-ALD	8.3	3.3 V, 2.5 A	14 V	275	1 : 0.13	1 : 0.57	133	9	Maxim MAX5941A
C1154-BLD	9.1	3.3 V, 2 A 2.5 V, 0.6 A	15 V / 5 V	275	1 : 0.10 1 : 0.075	1 : 0.425	255	9	Maxim MAX5941A
C1173-ALD	10	3.3 V, 3 A	10 V / 5.6 V	500	1 : 0.15	1 : 0.5	166.5	9	TI TPS23750
C1174-ALD	10	5.0 V, 2 A	10 V / 7.5 V	500	1 : 0.20	1 : 0.44	150.0	9	TI TPS23750
GA3562-BLD	10	12 V, 0.83 A	10 V / 7.5 V	500	1 : 0.05	1 : 0.5	166.5	9	TI TPS23750
Telecom extended input (24 – 60 Vdc)									
DA2383-ALD	13	3.3 V, 4 A	10 V, 0.05 A	250	1 : 0.16	1 : 0.50	127	8	TI LM5071
2.9 – 32 Vdc input									
TA7618-AL	2.0	5 V, 0.4 A	—	100	1 : 4	—	2.0	6	Silicon Labs ISOVolt
TA7608-AL	2.0	5 V, 0.4 A	—	100	1 : 4	—	2.0	2	Silicon Labs Si88x2x, Si88x4x
NA5889-AL	12	12 V, 1 A	—	200	1 : 0.833	—	12	8	TI 55340

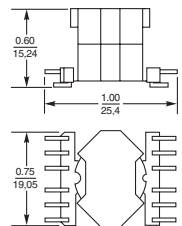
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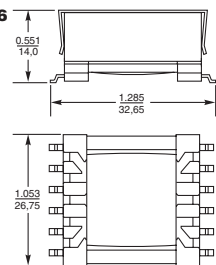
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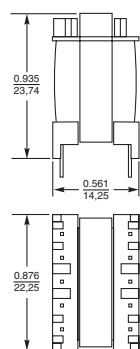
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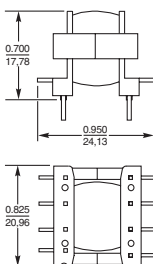
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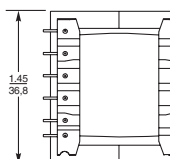
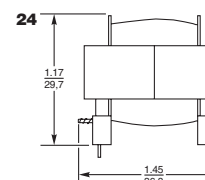
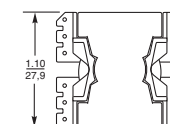
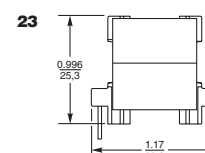
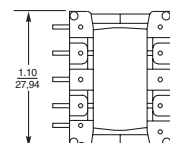
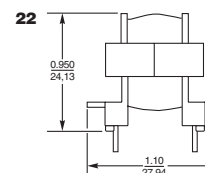
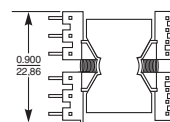
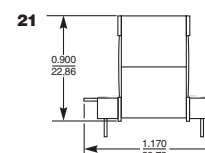
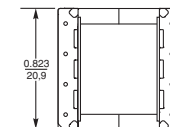
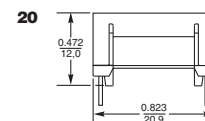
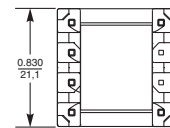
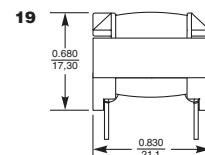
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Part number	Power (W)	Output	Aux / bias	Nominal freq. (kHz)	Turns ratio 0 A		L at Dim (µH)	dwg	Designed for
					pri : sec	pri : aux			
3.3 Vdc input									
DA2420-ALD	1.2	12 V, 0.1 A	—	100	1 : 2	—	330	8	ST Micro STE12PS
DA2421-ALD	1.2	12 V, 0.1 A	—	100	1 : 3	—	330	8	ST Micro STE12PS
4 – 6 Vdc input									
S6057-AL	4.5	5.0 V / 0.9 A	—	100	1 : 1	—	47	15	TI LM258X (T7)
S6000-AL	4.5	5.0 V / 0.9 A	—	100	1 : 1	—	47	18	TI LM258X (T7)
Q4435-BL	8.0	5.0 V, 1.6 A	—	100	1 : 1	—	22	15	TI LM258X (T1)
Q4434-BL	8.0	5.0 V, 1.6 A	—	100	1 : 1	—	22	18	TI LM258X (T1)
Q4436-BL	8.4	12 V, 0.35 A –12 V, 0.35 A	—	100	1 : 2.5 1 : 2.5	—	22	15	TI LM258X (T2)
Q4337-BL	8.4	12 V, 0.35 A –12 V, 0.35 A	—	100	1 : 2.5 1 : 2.5	—	22	18	TI LM258X (T2)
4.5 – 8.5 Vdc input									
FA2469-ALD	4.0	–48 V, 0.083 A	—	125	1 : 16	—	19	4	STMicro STLC3075
5 – 24 Vdc input									
HA3994-AL	4.0	5 V, 3.6 A 15 V, 1.2 A –15 V, 1.2 A	—	100	1 : 0.5 1 : 1.5 1 : 1.5	—	7.5	16	Linear LT3751
8 – 18 Vdc input									
NA6264-AL	48	48 V, 1 A	9 V, 20 mA	300	1 : 6	1 : 1.5	2.56	16	TI PMP7899
8.5 – 12 Vdc input									
FA2470-ALD	4.0	–48 V, 0.083 A	—	125	1 : 8	—	19	4	STMicro STLC3075
9 – 20 Vdc input									
IFLY0012LD	4.1	24 V, 0.17 A 72 V, 0.17 A	—	600	1 : 3 1 : 9	—	6.0	10	Intersil ISL6401
10 – 14 Vdc input									
GA3430-BLD	5.0	5.0 V, 1.5 A	5.0 V, 20 mA	250	1 : 0.20	1 : 0.20	25	7	
GA3431-BLD	5.0	3.3 V, 1.5 A	3.3 V, 20 mA	250	1 : 0.14	1 : 0.14	25	7	
18 – 36 Vdc input									
MA5237-ELD	7.5	5.0 V, 1.5 A	2.5 V, 20 mA	500	1 : 0.5	1 : 0.25	60	11	Maxim MAX17498B
Q4437-BL	15.0	5.0 V, 1.8 A 12 V, 0.25 A –12 V, 0.25 A	—	100	1 : 0.5 1 : 1.167 1 : 1.167	—	55	15	TI LM258X (T5)
Q4338-BL	15.0	5.0 V, 1.8 A	—	100	1 : 0.5	—	66	18	TI LM258X (T5)
CU8758-AL	19.9	24 V, 0.833 A 12 V, 0.25 A –12 V, 0.25 A	—	200	1 : 1.85 1 : 1.167 1 : 1.167	—	33	12	Maxim MAX17597
Q4438-BL	15.1	12 V, 0.63 A –12 V, 0.63 A	—	100	1 : 1.2 1 : 1.2	—	65	15	TI LM258X (T6)
Q4339-BL	15.1	12 V, 0.63 A –12 V, 0.63 A	—	100	1 : 1.2 1 : 1.2	—	66	18	TI LM258X (T6)
Q4344-BL	33.0	12 V, 0.75 A –12 V, 0.75 A 5.0 V, 3 A	—	100	1 : 0.35 1 : 0.8 1 : 0.8	—	85	22	TI LM258X (T4)
Q4343-BL	33.6	12 V, 1.4 A –12 V, 1.4 A	—	100	1 : 0.8 1 : 0.8	—	85	22	TI LM258X (T3)
20 – 28 Vdc input									
GA3429-BLD	5.0	3.3 V, 1.5 A	3.3 V, 20 mA	250	1 : 0.25	1 : 0.25	24	7	Linear LT3573
22 – 26 Vdc input									
GA3136-BL	50	53 V, 1A	—	150	1 : 1.4	1 : 0.33	36	16	TI UCC2809
400 V input									
GA3502-BL	44	110 V, 0.4 A	18 V, 20 mA	250	1 : 0.35	1 : 0.06	800	16	Maxim MAX16801
ac line input (85 – 130 Vac)									
A9619-CL	7	12 V, 0.58 A		100	1 : 0.1	1 : 0.14	3200	22	ON Semi NCP101X
MA5157-AL	17	23 V, 0.74 A	19 V, 20 mA	100	1 : 0.23	1 : 0.20	750	20	NXP Semi SSL2103



Part number	Power (W)	Output	Aux / bias	Nominal freq. (kHz)	Turns ratio 0 A		L at Dim (μH)	dwg	Designed for
					pri : sec	pri : aux			
ac line input (195 – 265 Vac)									
PA6284L	11	12–18 V, 0.64 A	20 V, 10 mA	100	1 : 0.136	1 : 0.144	1400	8	ST Micro STEVAL-ILL055V1
B0570-BL	15	12 V, 1.25 A		100	1 : 0.06	1 : 0.08	3400	22	ON Semi NCP101X
Universal ac line input (85 – 265 Vac)									
Y8844-AL	3.5	6.5 V, 0.54 A	—	100	1 : 0.08	—	2900	12	ON Semi NCP1201
HA4018-AL	4.3	15 V, 0.05 A 5 V, 0.35 A –15 V, 1.125 A	12 V, 20 mA	50	1 : 0.12 1 : 0.067 1 : 0.189	1 : 0.156	2200	20	TI UCC28600
GA3544-BL	5	12 V, 0.2 A 12 V, 0.2 A	—	100	1 : 0.158 1 : 0.158	1 : 0.079	2300	20	TI UCD3K
HA3905-CLD	5	15 V, 0.33 A	10 V, 20 mA	100	1 : 0.16	1 : 0.11	2300	8	TI SLUU341
DA2077-AL	10	5.0 V, 2 A	12.5 V, 10 mA	65	1 : 0.06	1 : 0.15	3400	22	ON Semi NCP1027
Y8848-AL	10	12 V, 0.83 A	—	100	1 : 0.10	—	1800	22	ON Semi NCP1202
GA3172-AL	14	20 V, 0.7 A	12 V, 20 mA	125	1 : 0.214	1 : 0.131	500	17	Microchip AC LED Driver
JA4429-AL	24	24 V, 1.0 A	24 V, 20 mA	100	1 : 0.24	1 : 0.24	400	19	Linear LT1399
CR8076-AL	30	15 V, 0.65 A 7.5 V, 0.7 A 5 V, 0.7 A		250	1 : 0.125 1 : 0.042 1 : 0.083		250	10	Maxim MAX17497A/B
GA0007-AL	48	32 V, 1 A 16 V, 0.75 A	16 V, 20 mA	45	1 : 0.2	1 : 0.2	270	21	ON Semi NCP1351
KA5038-BL	66	19 V, 3.5 A	5.5 V, 20 mA	50	1 : 0.188	1 : 0.156	560	26	ON Semi NCP1236
Z9007-BL	67	16 V, 4.2 A	—	100	1 : 0.16	—	700	24	ON Semi NCP1200
Z9260-AL	67	16 V, 4.2 A	15 V, 1.2 A	100	1 : 0.16	1 : 0.15	700	24	ON Semi NCP1200
GA3366-BL	90	19.5 V, 4.62 A	16 V, 20 mA	100	1 : 0.147	1 : 0.118	300	27	ON Semi NCP1606
FA2443-AL	120	19.4 V, 6.2 A	—	140	1 : 0.167	1 : 0.167	200	25	TI UCC28600

Capacitor Charging Transformers

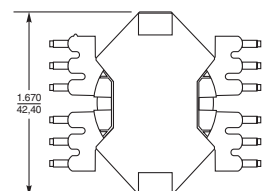
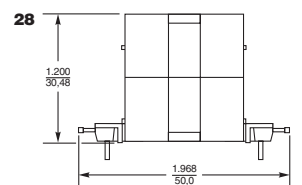
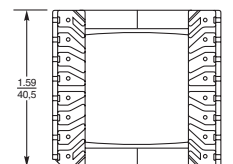
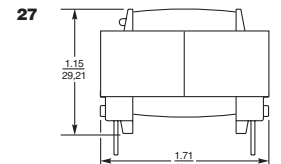
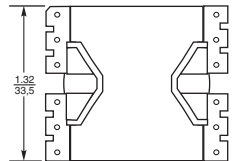
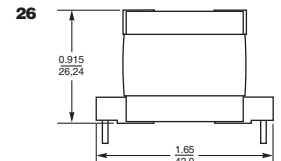
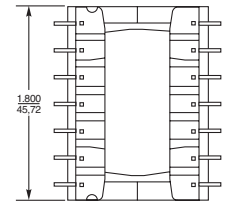
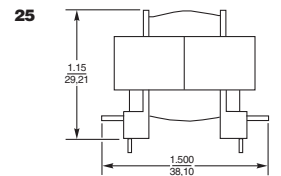
Part number	Peak input current (A)	Output voltage (V)	Aux / bias output	Nominal freq. (kHz)	Turns ratio		L at 0 A (μH)	Dim dwg	Designed for
					pri : sec	pri : aux			
CJ5143-ALD	1.2	350	—	1.0	1 : 15	—	15	1	ON NCP5080 Cap. Charger
HA4060-AL	2.0	500	—	100	1 : 3	—	300	16	Linear LT3751 Cap. Charger
GA3459-BL	3.0	500	—	50	1 : 10	—	5.0	16	Linear LT3751 Cap. Charger
DA2032-ALD	3.0	300	—	100	1 : 10	—	10	9	Linear LT3750 Cap. Charger
HA4061-AL	5.0	500	—	100	1 : 3	—	125	23	Linear LT3751 Cap. Charger
DA2033-ALD	5.0	300	—	100	1 : 10	—	10	11	Linear LT3750 Cap. Charger
DA2034-ALD	10	300	—	100	1 : 10	—	10	14	Linear LT3750 Cap. Charger
GA3460-BL	50	500	—	50	1 : 10	—	2.5	16	Linear LT3751 Cap. Charger

Transformers for Cell Balancing

Part number	Peak input current (A)	Output voltage (V)	Aux / bias output	Nominal freq. (kHz)	Turns ratio		L at 0 A (μH)	Dim dwg	Designed for
					pri : sec	pri : aux			
NA5743-ALD	7.0	30–80	—	150	1 : 4	—	4.0	7	Linear LT8584 Cell Balancer
NA6252-ALD	7.0	9–36	—	150	1 : 1.33	—	4.0	7	Linear LT8584 Cell Balancer
NA5920-ALD	7.0	100–400	—	150	1 : 24	—	4.0	7	Linear LT8584 Cell Balancer

Solar Inverter Transformers (dc to ac)

Part number	Peak input current (A)	Output voltage (V)	Aux / bias output	Nominal freq. (kHz)	Turns ratio		L at 0 A (μH)	Dim dwg	Designed for
					pri : sec	pri : aux			
JA4635-AL	10.5	110 VAC	—	150	1 : 6	—	28	28	Microchip AN1338
NA5919-AL	13.6	110 VAC	—	150	1 : 4	—	55	28	Microchip AN1444
KA4823-CL	10.5	220 VAC	—	150	1 : 12	—	28	28	Microchip AN1338
NA5814-AL	13.6	220 VAC	—	150	1 : 7	—	55	28	Microchip AN1444





High Frequency Current Sensing Transformers

These Current Sensing Transformers are designed for use from 50 kHz up to 1 MHz to sense currents as high as 40 Amps. They are available in a wide range of turns ratios and are ideal for use in switching power supply applications. The CST1 and CST2 series differ in pinouts to meet the requirements of different applications. All but the CS4xxx are surface mount parts.

Q200
125°

CST4835

Part number	Turns ratio pri:sec	Inductance min (µH)	DCR max (Ohms)		Primary current max (A)	Terminating resistor (Ohms)
			primary	secondary		
CST4835-020EC	1:20	33	0.003	0.35	7.0	2.9
CST4835-030EC	1:30	74	0.003	0.90	7.0	4.3
CST4835-040EC	1:40	132	0.003	1.60	7.0	5.7
CST4835-050EC	1:50	205	0.003	2.50	7.0	7.1
CST4835-060EC	1:60	295	0.003	3.60	7.0	8.6
CST4835-070EC	1:70	400	0.003	4.60	7.0	10.0
CST4835-100EC	1:100	820	0.003	9.50	7.0	14.3
CST4835-125EC	1:125	1280	0.003	13.0	7.0	17.9
CST4835-150EC	1:150	1800	0.003	21.0	7.0	21.4

T6522

Part number	Turns ratio	Inductance min (mH)	Sensed current max (A)	Sensitivity Vout (V)	Iin (A)	Terminating resistor (Ohms)
T6522-ALD	1:50	3.4	3	1	0.5	50

Q200
125°

CST7030

Part number	Turns ratio pri:sec	Inductance min (mH)	DCR max (Ohms)		Primary current max (A)	Terminating resistor (Ohms)
			primary	secondary		
CST7030-020LC	1:20	0.053	0.0015	0.420	20	2.0
CST7030-050LC	1:50	0.333	0.0015	2.76	20	5.0
CST7030-070LC	1:70	0.652	0.0015	5.04	20	7.0
CST7030-100LC	1:100	1.330	0.0015	10.68	20	10.0
CST7030-150LC	1:150	2.993	0.0015	22.30	20	15.0

CU8965-AL

Part number	Turns ratio pri:sec	Inductance min (mH)	DCR max (Ohms)		Primary current max (A)	Terminating resistor (Ohms)
			primary	secondary		
CU8965-ALC	1:100	1.33	0.0015	10.68	20	10.0

Q200
125°

CST2010

Part number	Turns ratio pri:sec	Inductance min (mH)	DCR max (Ohms)		Primary current max (A)	Terminating resistor (Ohms)
			primary	secondary		
CST2010-020LD	1:20	0.34	0.00036	0.180	40	2.0
CST2010-030LD	1:30	0.76	0.00036	0.265	40	3.0
CST2010-040LD	1:40	1.36	0.00036	0.560	40	4.0
CST2010-050LD	1:50	2.12	0.00036	0.705	40	5.0
CST2010-060LD	1:60	3.06	0.00036	0.850	40	6.0
CST2010-070LD	1:70	4.16	0.00036	1.00	40	7.0
CST2010-080LD	1:80	5.44	0.00036	1.15	40	8.0
CST2010-100LD	1:100	8.50	0.00036	1.45	40	10.0
CST2010-125LD	1:125	13.3	0.00036	1.85	40	12.5
CST2010-150LD	1:150	19.2	0.00036	2.25	40	15.0
CST2010-200LD	1:200	34.0	0.00036	4.06	40	20.0

Q200
125°

CST1/CST2

Part number	Turns ratio pri:sec	Inductance min (µH)	DCR max (Ohms)		Primary current max (A)	Terminating resistor (Ohms)
			primary	secondary		
CST1/CST2-020LD	1:20	81	0.0007	0.400	10	2.0
CST1/CST2-030LD	1:30	180	0.0007	0.870	10	3.0
CST1/CST2-040LD	1:40	320	0.0007	1.14	10	4.0
CST1/CST2-050LD	1:50	500	0.0007	1.50	10	5.0
CST1/CST2-060LD	1:60	730	0.0007	1.98	10	6.0
CST1/CST2-070LD	1:70	980	0.0007	4.75	10	7.0
CST1/CST2-100LD	1:100	2000	0.0007	5.50	10	10.0
CST1/CST2-125LD	1:125	3000	0.0007	6.50	10	12.5

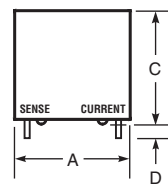
SCS

Part number	Turns ratio pri:sec	Inductance min (mH)	DCR max (Ohms)		Primary current max (A)	Terminating resistor (Ohms)
			primary	secondary		
SCS-050LD	1:50	3.8	0.0024	0.90	30	5.0
SCS-100LD	1:100	14.8	0.0024	1.80	30	10.0
SCS-200LD	1:200	59.2	0.0024	3.90	30	20.0

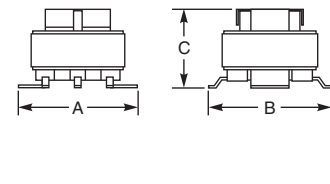
CS4xxx

Part number	Turns ratio	Inductance min (mH)	Sensed current max (A)	Sensitivity Vout (V)	Iin (A)	Terminating resistor (Ohms)
CS4050V-01L	1:50	5.0	10	1	1	50
CS4100V-01L	1:100	20	24	1	1	100
CS4200V-01L	1:200	80	35	1	1	200

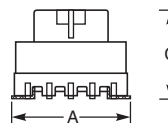
CS4xxx



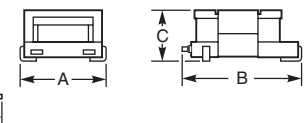
CST1 / CST2



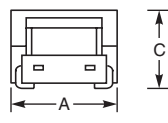
CST2010



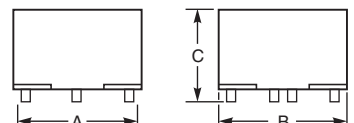
CST4835



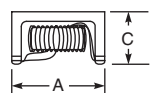
CST7030, CU8965-AL



SCS



T6522-AL



Dimensions (inches mm)

Series	A max	B max	C max	D max
CS4xxx	0.77 19.56	0.57 14.48	0.78 19.81	0.150 3.81
CST1 / CST2	0.315 8.0	0.320 8.13	0.209 5.3	
CST2010	0.573 14.55	0.784 19.91	0.413 10.5	
CST7030	0.205 5.2	0.276 7.0	0.118 3.0	
CST4835	0.173 4.4	0.177 4.5	0.138 3.5	
CU8965	0.205 5.2	0.276 7.0	0.118 3.0	
SCS	0.479 12.17	0.479 12.17	0.413 10.5	
T6522	0.430 10.9	0.300 7.62	0.25 6.35	



Current Sensors

These parts function as the encapsulated secondary of a current transformer while the conductor carrying the current to be measured serves as the "one turn primary." Sensitivity may be enhanced by increasing primary turns. Minimum insulation wall thickness of the hole is 0.5 mm.



High Frequency Sensors

Designed for use at 20-50 kHz and higher, these sensors are ideal for sensing branch circuit overload, switcher feedback, detecting load drop or shutdown, etc. Coilcraft **Designer's Kit P403** contains samples of the D18xx, CS1xxx (except CS1750L), CS60-010L and CS41xxx.

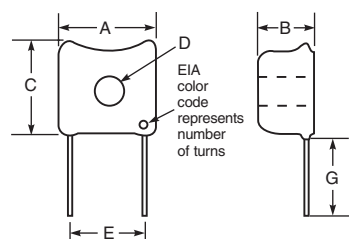
Part number	Turns	Inductance min (mH)	Sensed current max (A)	Sensitivity Vout/Vin (V)	Terminating resistor (Ohms)	Color code
D1869L	50	5	10	1 1	50	Green
D1870L	100	20	24	1 1	100	Brown
D1871L	200	80	35	1 1	200	Red
CS1050L	50	5	10	1 1	50	
CS1100L	100	20	24	1 1	100	
CS1200L	200	80	35	1 1	200	
CS1750L	750	1125	30	1 1	750	

50/60 Hz Sensors

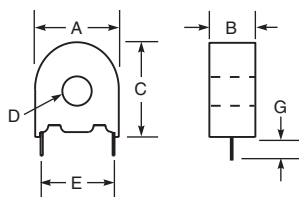
These parts are designed for measuring current from 0.5 up to 100 Amps rms.

Part number	Recommended current (Irms)	V out tolerance
CS60-010L	1-10	±10%
CS60-050L	5-50	±10%
CS60-075L	5-75	±10%
CS60-100L	5-100	±10%

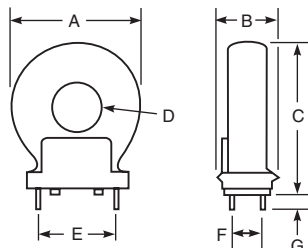
D18xxL, CS60-010L



CS1xxxL



CS60-xxxL



Dimensions (inches mm)

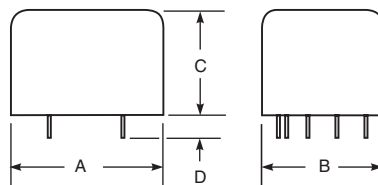
Series	A max	B max	C max	D min	E cen	F cen	G
D18xx	0.75 19,05	0.465 11,81	0.80 20,30	0.20 5,08	0.50 ±0.015 12,7 ±0,38		0.45 11,43
CS1xxx	0.70 17,8	0.375 9,53	0.80 20,30	0.20 5,08	0.50 ±0.015 12,7 ±0,38		0.19 ±0.03 4,83 ±0,76
CS60-010L	0.75 19,05	0.465 11,81	0.80 20,30	0.125 19,05	0.50 ±0.015 12,7 ±0,38		0.45 11,43
CS60-XXXL	1.10 27,9	0.750 19,05	1.25 31,75	0.350 8,89	0.600 ±0.010 15,24 ±0,25	0.250 ±0.010 6,35 ±0,25	0.150 ±0.030 3,81 ±0,76



50/60 Hz Transformer

This transformer is designed for measuring current from 0.5 to 20 Amps rms.

Part number	Recommended current (Irms)	Isolation (Vrms)
CS2106L	0.5-20	2500



Dimensions (inches mm)

Series	A max	B max	C max	D min
CS2106L	1.05 26,67	0.850 21,59	0.725 18,42	0.150 3,81



Common Mode EMI/RFI Filters

Coilcraft offers EMI/RFI common mode chokes for the suppression of radiated and/or conducted EMI. Data/signal line filters such as our **USB** families dramatically suppress common mode noise with minimal impact on high-speed differential signals. The **PFD**, **LPD** and **MSD** parts can be used to attenuate common-mode or differential-mode noise in both data and power line applications. Power line chokes like the **CMT** and **BU** Series reduce common mode noise from AC power.

Data Line Common Mode EMI Chokes

The **CJ5100**, **CQ7584**, and **CR7856** surface mount data line common mode chokes are designed to attenuate up to 100 MHz common mode noise. The **PDLF** series can reduce noise by a factor of 32 from 15 MHz to 300 MHz and are available in 2, 3 and 4 line versions. The **PTRF** series is optimized for FCC and ITU-T (formerly CCITT) requirements. These parts provide 15 to 25 dB attenuation, greater than 1000 Ohms impedance and 1500 V isolation between windings. **M2022** can suppress common mode noise up to 500 MHz in a compact 1812 package.

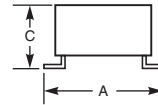
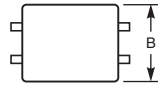
CJ5100, CQ7584, CR7856



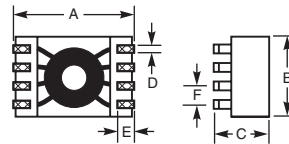
NEW!

Part number	Common mode impedance max (kOhms)	Cutoff frequency (MHz)	Inductance min (mH)	Inductance nom (mH)	DCR max (Ohms)	Isolation (Vrms)	Irms (mA)
CJ5100-AL	4.49 @ 9.9 MHz	920	0.47	0.329	0.85	500	240
CQ7584-AL	6.81 @ 4.4 MHz	760	2.20	1.54	0.65	500	400
CR7856-AL	11.17 @ 1.9 MHz	460	4.70	3.29	0.47	500	1300

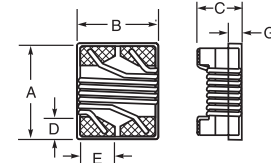
CJ5100, CQ7584, CR7856



PDLF / PTRF Series



M2022 Series



PDLF



Part number	Lines	Common mode peak impedance (kOhms)	Cutoff frequency (GHz)	Inductance min (pH)	DCR max (mOhms)	Isolation (Vrms)	Current (mA)
PDLF4000LC	4	0.949 @ 210 MHz	1.1	5.0	250	300	100
PDLF4500LC	4	0.848 @ 200 MHz	0.88	5.0	200	300	500
PDLF3000LC	3	0.901 @ 280 MHz	1.4	5.0	250	300	100
PDLF3500LC	3	0.910 @ 210 MHz	1.1	5.0	200	300	500
PDLF2000LC	2	0.958 @ 280 MHz	1.3	5.0	250	300	100
PDLF2500LC	2	0.929 @ 250 MHz	1.2	5.0	200	300	500

PTRF



Part number	Lines	Common mode peak impedance (kOhms)	Cutoff frequency (MHz)	Inductance min (pH)	DCR max (mOhms)	Isolation (Vrms)	Current (mA)
PTRF2000LC	1	0.814 @ 11 MHz	38	35	75	1500	500
PTRF4000LC	2	0.851 @ 12 MHz	41	35	135	1500	500

M2022



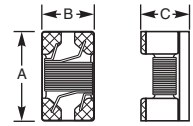
Part number	Common mode impedance max (kOhms)	Cutoff frequency (MHz)	Inductance min (pH)	DCR max (mOhms)	Isolation (Vrms)	Current (mA)
M2022-ALC	38.3 @ 120 MHz	170	4.2 ±10%	800	500	500
M2022-ALPLC	40.0 @ 160 MHz	120	4.0 ±10%	990	500	500
M2022-ASLC	32.0 @ 66 MHz	140	11.5	850	500	500

Dimensions (inches mm)

Series	A max	B max	C max	D ref	E typ	F	G
CJ5100-AL	0.370 9,4	0.236 6,0	0.189 4,8				
CQ7584-AL	0.370 9,4	0.220 5,6	0.189 4,8				
CR7856-AL	0.370 9,4	0.217 5,5	0.193 4,9				
M2022-ALC	0.195 4,95	0.150 3,81	0.135 3,43	0.030 0,76	0.040 1,02		0.070 1,78
M2022-ALPLC	0.195 4,95	0.150 3,81	0.079 2,01	0.030 0,76	0.040 1,02		0.070 1,78
M2022-ASLC	0.231 5,87	0.196 4,98	0.150 3,81	0.030 0,76	0.040 1,02		0.107 2,72
PDLF	0.329 8,35	0.223 5,65	0.146 3,70	0.020 0,50	0.395 1,00	0.050 1,27	
PTRF	0.329 8,35	0.223 5,65	0.146 3,70	0.020 0,50	0.395 1,00	0.050 1,27	

High-Speed Data Line EMI Chokes

Coilcraft's **RA6870**, **CM1394** and **USB** families of high-speed data line common mode chokes effectively reduce common mode noise in high-speed interfaces like USB 2.0, USB 3.1 Gen 1, HDBaseT™, MOST® bus, etc. They maintain excellent signal integrity for high-speed communications with the -3dB differential mode cutoff frequency up to 6.5 GHz. Most provide greater than 30 dB common mode attenuation at 500 MHz and 25 dB in the GHz band.



0603USB

Part number	Common mode impedance (kOhms)	Cutoff frequency (GHz)	Common mode attenuation typ (dB)			Inductance min (nH)	DCR max (Ohms)	Isolation (Vrms)	Irms (mA)
			100 MHz	500 MHz	1 GHz				
0603USB-251MLC	>0.10 @ >3.0 GHz	3.8	1.31	3.16	8.45	18	0.077	250	500
0603USB-601MLC	>0.18 @ >3.0 GHz	3.4	3.00	6.88	13.27	37	0.109	250	500
0603USB-951MLC	0.30 @ 2.6 GHz	2.8	4.62	9.75	16.06	63	0.142	250	500
0603USB-142MLC	0.42 @ 1.9 GHz	1.9	6.85	12.80	18.16	98	0.174	250	500
0603USB-222MLC	0.71 @ 2.9 GHz	0.96	9.14	16.53	20.29	150	0.209	250	500

0805USB

Part number	Common mode impedance (kOhms)	Cutoff frequency (GHz)	Common mode attenuation typ (dB)			Inductance min (nH)	DCR max (Ohms)	Isolation (Vrms)	Irms (mA)
			10 MHz	100 MHz	500 MHz				
0805USB-421MLC	>0.22 @ >3.0 GHz	3.5	1.1	2.3	8.4	23	0.12	250	500
0805USB-901MLC	>0.29 @ >3.0 GHz	2.5	1.4	4.2	16.9	47	0.17	250	500
0805USB-172MLC	0.64 @ 1.8 GHz	1.8	2.3	6.7	22.0	84	0.25	250	500
0805USB-262MLC	0.82 @ 1.8 GHz	1.5	3.0	8.6	27.8	147	0.26	250	500
0805USB-372MLC	1.06 @ 1.4 GHz	0.82	4.5	11.9	34.3	189	0.32	250	500
0805USB-502MLC	1.42 @ 1.1 GHz	0.70	4.9	14.5	31.3	273	0.37	250	500
0805USB-672MLC	1.75 @ 0.93 GHz	0.46	8.4	16.6	30.0	322	0.45	250	500
0805USB-902MLC	2.06 @ 0.90 GHz	0.47	8.7	18.7	30.5	413	0.65	250	400

0805USBN

NEW!

Part number	Common mode impedance (kOhms)	Cutoff frequency (GHz)	Common mode attenuation typ (dB)			Inductance min (nH)	DCR max (Ohms)	Isolation (Vrms)	Irms (mA)
			10 MHz	100 MHz	500 MHz				
0805USBN-121MRC	0.14 @ 2.6 GHz	6.4	0.04	0.5	5.0	14	0.11	250	500
0805USBN-271MRC	0.30 @ 2.5 GHz	5.1	0.09	1.4	10.0	30	0.14	250	500
0805USBN-481MRC	0.60 @ 3.0 GHz	3.4	0.13	3.5	14.7	53	0.22	250	500
0805USBN-701MRC	0.79 @ 2.0 GHz	3.4	0.18	5.3	17.4	77	0.235	250	500
0805USBN-941MRC	1.28 @ 1.4 GHz	3.5	0.30	7.6	21.1	105	0.27	250	500
0805USBN-132MRC	1.61 @ 1.2 GHz	2.3	0.50	10.0	24.4	140	0.32	250	500
0805USBN-162MRC	2.00 @ 1.0 GHz	1.5	0.78	12.1	27.3	182	0.37	250	450
0805USBN-222MRC	2.47 @ 0.96 GHz	1.7	1.14	14.0	30.0	252	0.63	250	350

Q200
125°

0805USBF

NEW!

Part number	Common mode impedance (kOhms)	Cutoff frequency (GHz)	Common mode attenuation typ (dB)			Inductance min (nH)	DCR max (Ohms)	Isolation (Vrms)	Irms (mA)
			10 MHz	100 MHz	500 MHz				
0805USBF-421MRC	>0.14 @ >3.0 GHz	6.6	0.5	4.6	6.9	28	0.11	250	500
0805USBF-901MRC	>0.30 @ >3.0 GHz	5.8	2.1	9.1	11.8	60	0.14	250	500
0805USBF-172MRC	0.52 @ 2.5 GHz	3.3	4.0	12.8	15.7	101	0.22	250	500
0805USBF-262MRC	0.69 @ 2.0 GHz	2.4	5.7	15.4	18.5	165	0.235	250	500
0805USBF-372MRC	0.93 @ 1.8 GHz	1.4	5.8	18.1	22.3	241	0.27	250	500
0805USBF-502MRC	1.22 @ 1.5 GHz	0.93	11.2	21.6	25.2	315	0.32	250	500
0805USBF-672MRC	1.65 @ 1.2 GHz	0.69	11.3	23.3	27.7	434	0.37	250	450
0805USBF-902MRC	1.91 @ 1.0 GHz	0.73	12.6	25.4	30.0	560	0.63	250	350

1206USB

Part number	Common mode impedance (kOhms)	Cutoff frequency (GHz)	Common mode attenuation typ (dB)			Inductance min (nH)	DCR max (Ohms)	Isolation (Vrms)	Irms (mA)
			10 MHz	100 MHz	500 MHz				
1206USB-371MLC	0.21 @ 3.0 GHz	2.7	1.0	2.1	12.0	31	0.10	250	1000
1206USB-102MLC	0.36 @ 1.9 GHz	2.2	1.5	4.2	19.0	66	0.14	250	850
1206USB-172MLC	0.55 @ 1.5 GHz	2.1	2.3	6.8	26.0	107	0.18	250	700
1206USB-262MLC	0.76 @ 1.1 GHz	2.0	3.0	9.7	31.0	161	0.22	250	600
1206USB-372MLC	1.11 @ 1.1 GHz	1.2	4.7	12.0	33.0	226	0.26	250	600
1206USB-532MLC	1.45 @ 0.93 GHz	0.78	5.5	15.0	35.0	319	0.30	250	600
1206USB-672MLC	1.69 @ 0.93 GHz	0.75	7.3	16.5	33.0	412	0.34	250	500
1206USB-872MLC	1.99 @ 0.72 GHz	0.53	9.1	18.0	32.0	510	0.39	250	500
1206USB-113MLC	2.24 @ 0.66 GHz	0.51	10.2	21.0	31.0	623	0.44	250	500
1206USB-223MLC	3.36 @ 0.34 GHz	0.22	22.4	33.1	32.3	1040	0.085	250	120

Q200
125°

RA6870

Part number	Common mode impedance (kOhms)	Cutoff frequency (GHz)	Common mode attenuation typ (dB)			Inductance min (nH)	DCR max (Ohms)	Isolation (Vrms)	Irms (mA)
			10 MHz	100 MHz	500 MHz				
RA6870-ALC	1.94 @ 700 MHz	0.59	12.7	26.2	30.8	700	0.69	250	300

CM1394

Part number	Common mode impedance (kOhms)	Cutoff frequency (GHz)	Common mode attenuation typ (dB)			Inductance min (nH)	DCR max (Ohms)	Isolation (Vrms)	Irms (A)
			100 MHz	400 MHz	500 MHz				
CM1394LC	0.813 @ 660 MHz	1.2	11.1	21.1	22.7	220	0.105	50	1.5

Surface Mount Power Line Common Mode EMI Chokes

Coilcraft's low cost, high performance surface mount power line common mode chokes come in a variety of sizes and packages. They are designed to eliminate AC line conducted common mode noise across a broad range of frequencies, with up to 1500 Vrms isolation. These common mode chokes can operate for a wide range of current from 0.06 A to 15 A, providing attenuation where line filtering is needed, such as in switch-mode power supplies.

Power Line



NEW!

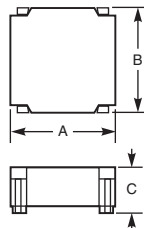
Part number	Common mode peak impedance (kOhms)	Inductance (mH)		Irms (A)	DCR max (mOhms)	Isolation (Vrms)
		nom	min			
CE1755-AL	3.33 @ 5.8 MHz	0.88	0.57	1.2	130	1000
CR7915-AL	3.10 @ 4.9 MHz	1.12	0.73	2.6	49.5	1500
CF3094-AL	7.95 @ 2.8 MHz	1.17	0.76	1.1	200	1000
CM6518-AL	4.17 @ 1.9 MHz	1.40	0.91	2.5	60.0	1000
CJ5094-CL	28.28 @ 0.26 MHz	10.0	6.5	1.2	180	1000
CV9172-AL	70.01 @ 0.21 MHz	22.0	14.3	0.57	850	1000
CF2638L	2.59 @ 4.5 MHz	0.22	0.14	2.9	60.0	1000
CD1479-AL	4.19 @ 3 MHz	0.59	0.38	4.2	20.0	1000
CH4659-AL	4.56 @ 2.5 MHz	0.77	0.50	4.7	40.0	1000
CD1480-BL	4.53 @ 2.2 MHz	1.32	0.85	3.5	60.0	1000
CE2439L	9.42 @ 1.1 MHz	1.47	0.96	2.5	80.0	1000
CG3333-AL	2.27 @ 3.1 MHz	0.90	0.59	3.7	50.0	1000
CG3528-AL	6.57 @ 0.98 MHz	3.00	1.95	3.1	42.0	1000
CE1759-AL	5.65 @ 1.8 MHz	0.81	0.52	6.0	14.0	1000
CG3885-AL	3.11 @ 1.8 MHz	0.47	0.30	10.0	8.0	1000
CF2805-AL	3.64 @ 1.9 MHz	0.63	0.40	6.8	14.0	1000

SBU9

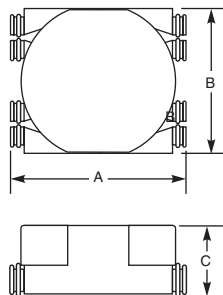


Part number	Common mode peak impedance (kOhms)	Inductance min (mH)	Irms (A)	DCR max (Ohms)	Isolation (Vrms)
SBU9-103R25LD	94.40 @ 230 kHz	10	0.25	2.5	1500
SBU9-2820R5LD	26.31 @ 570 kHz	2.8	0.50	0.70	1500
SBU9-1320R7LD	12.68 @ 900 kHz	1.3	0.70	0.38	1500
SBU9-6011R0LD	6.66 @ 1300 kHz	0.6	1.00	0.20	1500

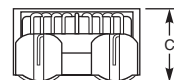
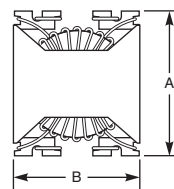
CE1755, CR7915, CF3094



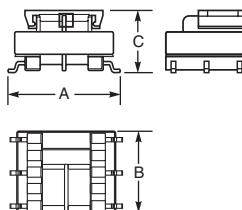
CE1759, CG3885, CF2805



CM6518, CJ5094, CV9172, CF2638L, CD1479, CH4659, CD1480, CE2439L, CG3333, CG3528



SBU9



Dimensions (inches mm)

Series	A max	B max	C max
CE1755-AL	0.512 13.0	0.512 13.0	0.215 5.46
CR7915-AL	0.512 13.0	0.512 13.0	0.220 5.6
CF3094-AL	0.512 13.0	0.512 13.0	0.215 5.46
CM6518-AL	0.645 16.38	0.560 14.22	0.350 8.90
CJ5094-CL	0.645 16.38	0.560 14.22	0.350 8.90
CV9172-AL	0.645 16.38	0.560 14.22	0.350 8.90
CF2638L	0.770 19.56	0.670 17.02	0.390 9.91
CD1479-AL	0.770 19.56	0.670 17.02	0.390 9.91
CH4659-AL	0.770 19.56	0.670 17.02	0.390 9.91
CD1480-BL	0.770 19.56	0.670 17.02	0.390 9.91
CE2439L	0.770 19.56	0.670 17.02	0.390 9.91
CG3333-AL	0.770 19.56	0.670 17.02	0.390 9.91
CG3528-AL	0.770 19.56	0.670 17.02	0.390 9.91
CE1759-AL	1.02 26.0	1.22 31.0	0.512 13.0
CG3885-AL	1.02 26.0	1.22 31.0	0.50 12.7
CF2805-AL	1.02 26.0	1.22 31.0	0.50 12.7
SBU9	0.717 18.2	0.492 12.5	0.362 9.2

Through-Hole Power Line Common Mode EMI Chokes

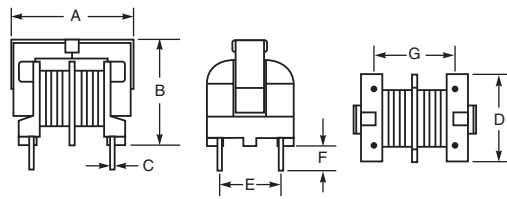
Coilcraft's low-cost through-hole **BU** Series high efficiency choke coils are designed to eliminate line conducted common mode noise across a broad range of frequencies. The **BU9S** and **BU9HS** are ideal for signal line applications; the other BUs can be used in switching power supplies and power supply circuits. For low profile applications, the **BU9** and **BU9S** filters are available in a horizontal configuration that reduces their height to under half an inch (12.5 mm).



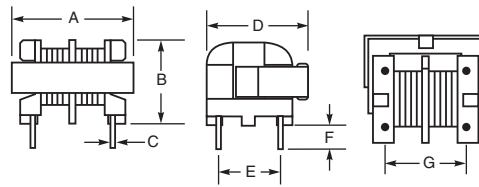
Part number	Common mode peak impedance (kOhms)	Inductance min (mH)	DCR (Ohms)	Isolation (Vrms)	Irms (A)
BU9S-153R15BL	121.5 @ 4300 kHz	15.0	5.0	1000	0.15
BU9S-7020R3BL	59.81 @ 3700 kHz	7.0	2.5	1000	0.30
BU9HS-153R15BL	121.5 @ 4300 kHz	15.0	5.0	1000	0.15
BU9HS-7020R3BL	59.81 @ 3700 kHz	7.0	2.5	1000	0.30
BU9-103R25BL	123.5 @ 250 kHz	10.0	3.5	1000	0.25
BU9-2820R5BL	25.12 @ 660 kHz	2.8	1.0	1000	0.50
BU9-1320R7BL	17.48 @ 980 kHz	1.3	0.5	1000	0.70
BU9-6011R0BL	5.43 @ 2100 kHz	0.6	0.2	1000	1.00
BU9-2011R6BL	4.39 @ 2900 kHz	0.2	0.1	1000	1.60
BU9H-103R25BL	123.5 @ 250 kHz	10.0	3.5	1000	0.25
BU9H-2820R5BL	25.12 @ 660 kHz	2.8	1.0	1000	0.50
BU9H-1320R7BL	17.48 @ 980 kHz	1.3	0.5	1000	0.70
BU9H-6011R0BL	5.43 @ 2100 kHz	0.6	0.2	1000	1.00
BU9H-2011R6BL	4.39 @ 2900 kHz	0.2	0.1	1000	1.60

Part number	Common mode peak impedance (kOhms)	Inductance min (mH)	DCR (Ohms)	Isolation (Vrms)	Irms (A)
BU10-1811R2BL	5.13 @ 1100 MHz	0.18	0.20	1000	1.20
BU10-1311R6BL	3.60 @ 1200 MHz	0.13	0.12	1000	1.60
BU10-1012R2BL	1.88 @ 1500 MHz	0.10	0.08	1000	2.20
BU10-6003R0BL	1.15 @ 2100 MHz	0.06	0.04	1000	3.00
BU15-4530R4BL	398.7 @ 130 kHz	45.0	3.0	1000	0.40
BU15-1430R7BL	70.62 @ 260 kHz	14.0	1.0	1000	0.70
BU15-7521R0BL	43.05 @ 340 kHz	7.5	0.6	1000	1.00
BU15-4421R3BL	41.14 @ 510 kHz	4.4	0.3	1000	1.30
BU15-2721R6BL	32.22 @ 620 kHz	2.7	0.2	1000	1.60
BU16-4530R5BL	269.6 @ 130 kHz	45.0	2.3	1000	0.50
BU16-2530R7BL	208.3 @ 190 kHz	25.0	1.3	1000	0.70
BU16-1031R0BL	57.14 @ 310 kHzx	10.0	0.5	1000	1.00
BU16-4021R5BL	26.26 @ 470 kHz	4.0	0.3	1000	1.50
BU16-2022R0BL	14.41 @ 740 kHz	2.0	0.2	1000	2.00

BU9, BU9S, BU10, BU15, BU16



BU9H, BU9HS



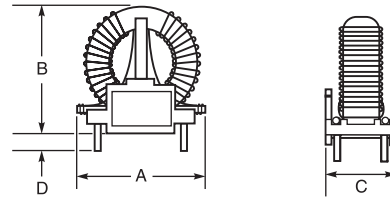
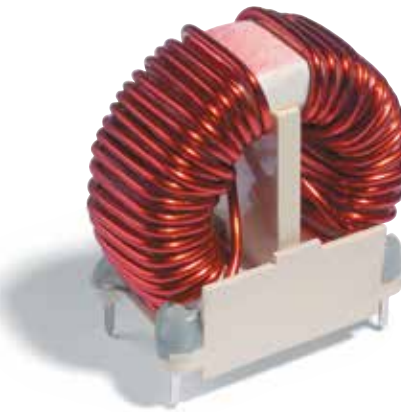
Dimensions (inches mm)

Series	A max	B max	C	D max	E	F	G
BU9, BU9S	0.69 17,5	0.67 17,0	0.024 0,6	0.43 11,0	0.276 ±0.02 7,0 ±0,5	0.157 ±0.04 4,0 ±1,0	0.31 ±0.02 8,0 ±0,5
BU9H, BU9HS	0.69 17,5	0.49 12,5	0.024 0,6	0.61 15,5	0.276 ±0.02 7,0 ±0,5	0.157 ±0.04 4,0 ±1,0	0.31 ±0.02 8,0 ±0,5
BU10	0.75 19,0	0.89 22,5	0.028 0,7	0.67 17,0	0.394 ±0.02 10,0 ±0,5	0.177 ±0.04 4,5 ±1,0	0.51 ±0.02 13,0 ±0,5
BU15	0.91 23,0	1.08 27,5	0.028 0,7	0.75 19,0	0.40 ±0.02 10,0 ±0,5	0.177 ±0.04 4,5 ±1,0	0.51 ±0.02 13,0 ±0,5
BU16	0.91 23,0	1.08 27,5	0.028 0,7	0.75 19,0	0.394 ±0.02 10,0 ±0,5	0.177 ±0.04 4,5 ±1,0	0.51 ±0.02 13,0 ±0,5

CMT Common Mode EMI Chokes

Coilcraft's CMT toroid style common mode chokes are designed to provide the highest common mode impedance over the widest frequency range. These parts are ideal for any application requiring a high DC current bias and are well suited for use in switch-mode power supplies. These common mode chokes are most effective in filtering supply and return conductors with in-phase signals of equal amplitude. Differential mode inductors are available for filtering out-of-phase or uneven amplitude signals.

Part number	Common mode peak impedance (kOhms)	Inductance min (mH)	DCR max (Ohms)	Leakage inductance max (uH)	Isolation (Vrms)	Irms (A)
CMT1-5.0-1L	36.28 @ 100 MHz	5.0	0.207	80	1250	1
CMT1-8.0-1L	27.98 @ 100 MHz	8.0	0.270	125	1250	1
CMT1-15.0-1L	35.27 @ 51 MHz	15	0.430	233	1250	1
CMT1-2.5-2L	50.80 @ 59 MHz	2.5	0.090	42	1250	2
CMT1-4.0-2L	17.53 @ 100 MHz	4.0	0.095	70	1250	2
CMT1-7.5-2L	2.29 @ 1.6 MHz	7.5	0.108	74	1250	2
CMT1-1.3-4L	31.76 @ 48 MHz	1.3	0.029	20	1250	4
CMT1-2.1-4L	13.05 @ 100 MHz	2.1	0.040	36	1250	4
CMT1-3.7-4L	47.42 @ 46 MHz	3.7	0.036	40	1250	4
CMT1-1.0-6L	12.64 @ 0.63 MHz	1.0	0.022	19	1250	6
CMT1-1.7-6L	43.05 @ 100 MHz	1.7	0.032	34	1250	6
CMT1-3.0-6L	160.40 @ 0.16 MHz	3.0	0.027	35	1250	6
CMT1-6-9L	22.06 @ 0.49 MHz	0.6	0.012	11	1250	9
CMT1-1.1-9L	28.44 @ 0.92 MHz	1.1	0.013	12	1250	9
CMT1-1.9-9L	9.53 @ 12 MHz	1.9	0.017	20	1250	9
CMT1-5-12L	9.53 @ 12 MHz	0.5	0.008	9.0	1250	12
CMT1-8-12L	8.27 @ 12 MHz	0.8	0.008	9.0	1250	12
CMT1-1.4-12L	46.14 @ 0.38 MHz	1.4	0.011	16	1250	12
CMT1-3-15L	35.27 @ 100 MHz	0.3	0.005	6.0	1250	15
CMT1-6-15L	17.74 @ 0.27 MHz	0.6	0.006	6.5	1250	15
CMT1-1.1-15L	81.12 @ 0.25 MHz	1.1	0.008	13.7	1250	15
CMT2-7.5-1L	4.25 @ 1.1 MHz	7.5	0.270	90	1250	1
CMT2-13-1L	26.46 @ 110 MHz	13	0.415	190	1250	1
CMT2-3-8-2L	2.15 @ 1.5 MHz	3.8	0.106	48	1250	2
CMT2-6.5-2L	33.27 @ 35 MHz	6.5	0.145	98	1250	2
CMT2-1.9-4L	2.98 @ 1.2 MHz	1.9	0.038	26	1250	4
CMT2-3.3-4L	27.29 @ 100 MHz	3.3	0.055	45	1250	4
CMT2-1.5-6L	35.92 @ 39 MHz	1.5	0.029	21	1250	6
CMT2-2.6-6L	16.92 @ 1.1 MHz	2.6	0.040	41	1250	6
CMT2-9-9L	161.50 @ 0.27 MHz	0.9	0.014	17	1250	9
CMT2-1.5-9L	27.13 @ 20 MHz	1.5	0.013	15	1250	9
CMT2-7-12L	29.70 @ 0.61 MHz	0.7	0.011	14	1250	12
CMT2-1.2-12L	32.73 @ 0.78 MHz	1.2	0.011	14	1250	12
CMT2-5-15L	56.35 @ 0.41 MHz	0.5	0.007	8.7	1250	15
CMT2-8-15L	110.44 @ 13 MHz	0.8	0.007	10	1250	15
CMT3-32-1L	215.01 @ 0.18 MHz	32	0.650	485	1250	1
CMT3-56-1L	149.83 @ 0.12 MHz	56	0.900	780	1250	1
CMT3-16-2L	215.13 @ 0.12 MHz	16	0.240	210	1250	2
CMT3-28-2L	22.33 @ 100 MHz	28	0.330	410	1250	2
CMT3-8-4L	29.82 @ 0.1 MHz	8.0	0.061	57.5	1250	4
CMT3-14-4L	28.53 @ 0.46 MHz	14	0.120	180	1250	4
CMT3-6.6-6L	41.91 @ 0.1 MHz	6.6	0.048	49	1250	6
CMT3-11.5-6L	13.83 @ 0.43 MHz	11.5	0.088	140	1250	6
CMT3-4-9L	14.47 @ 100 MHz	4.0	0.026	37	1250	9
CMT3-7-9L	26.76 @ 0.38 MHz	7.0	0.045	104	1250	9
CMT3-3-12L	25.59 @ 0.95 MHz	3.0	0.022	40	1250	12
CMT3-5.2-12L	20.13 @ 0.32 MHz	5.2	0.025	47	1250	12
CMT3-2.5-15L	79.68 @ 0.16 MHz	2.5	0.019	42	1250	15
CMT3-4.4-15L	19.83 @ 0.27 MHz	4.4	0.017	48	1250	15
CMT4-72-1L	19.27 @ 0.18 MHz	72	1.15	1400	1250	1
CMT4-125-1L	157.53 @ 0.18 MHz	125	1.15	1400	1250	1
CMT4-36-2L	30.29 @ 0.1 MHz	36	0.415	680	1250	2
CMT4-62-2L	26.48 @ 0.12 MHz	62	0.415	750	1250	2
CMT4-19-4L	186.61 @ 0.12 MHz	19	0.15	350	1250	4
CMT4-32-4L	39.44 @ 0.12 MHz	32	0.158	370	1250	4
CMT4-15-6L	247.34 @ 0.17 MHz	15	0.114	275	1250	6
CMT4-26-6L	91.87 @ 0.16 MHz	26	0.115	320	1250	6
CMT4-10-9L	28.15 @ 0.1 MHz	10	0.057	190	1250	9
CMT4-17-9L	433.33 @ 0.11 MHz	17	0.062	220	1250	9
CMT4-7.5-12L	56.92 @ 0.34 MHz	7.5	0.042	140	1250	12
CMT4-13-12L	25.54 @ 0.98 MHz	13	0.043	155	1250	12
CMT4-6-15L	80.52 @ 0.31 MHz	6.0	0.03	111	1250	15
CMT4-10-15L	66.10 @ 0.1 MHz	10	0.029	122	1250	15



Dimensions (inches mm)

Series	A max	B max	C max	D ref
CMT1-5.0-1L	1.210, 30.7	1.100, 27.9	0.625, 15.9	0.150, 3.81
CMT1-8.0-1L	1.210, 30.7	1.100, 27.9	0.625, 15.9	0.150, 3.81
CMT1-15.0-1L	1.300, 33.0	1.155, 29.4	0.625, 15.9	0.150, 3.81
CMT1-2.5-2L	1.210, 30.7	1.100, 27.9	0.625, 15.9	0.150, 3.81
CMT1-4.0-2L	1.210, 30.7	1.050, 26.7	0.625, 15.9	0.150, 3.81
CMT1-7.5-2L	1.300, 33.0	1.155, 29.4	0.625, 15.9	0.150, 3.81
CMT1-1.3-4L	1.210, 30.7	1.100, 27.9	0.625, 15.9	0.150, 3.81
CMT1-2.1-4L	1.210, 30.7	1.100, 27.9	0.625, 15.9	0.150, 3.81
CMT1-3.7-4L	1.300, 33.0	1.125, 28.6	0.625, 15.9	0.150, 3.81
CMT1-1.0-6L	1.210, 30.7	1.100, 27.9	0.625, 15.9	0.150, 3.81
CMT1-1.7-6L	1.300, 33.0	1.155, 29.4	0.625, 15.9	0.150, 3.81
CMT1-3.0-6L	1.210, 30.7	1.200, 30.5	0.625, 15.9	0.150, 3.81
CMT1-6-9L	1.210, 30.7	1.200, 30.5	0.625, 15.9	0.150, 3.81
CMT1-1.1-9L	1.210, 30.7	1.300, 33.0	0.625, 15.9	0.150, 3.81
CMT1-1.9-9L	1.400, 35.6	1.300, 33.0	0.625, 15.9	0.150, 3.81
CMT1-5-12L	1.210, 30.7	1.200, 30.5	0.650, 16.5	0.150, 3.81
CMT1-8-12L	1.210, 30.7	1.200, 30.5	0.650, 16.5	0.150, 3.81
CMT1-1.4-12L	1.210, 30.7	1.300, 33.0	0.650, 16.5	0.150, 3.81
CMT1-3-15L	1.210, 30.7	1.300, 33.0	0.625, 15.9	0.150, 3.81
CMT1-6-15L	1.210, 30.7	1.250, 31.8	0.650, 16.5	0.150, 3.81
CMT1-1.1-15L	1.210, 30.7	1.250, 31.8	0.700, 17.8	0.150, 3.81
CMT2-7.5-1L	1.310, 33.3	1.100, 27.9	0.825, 21.0	0.150, 3.81
CMT2-13-1L	1.310, 33.3	1.300, 33.0	0.825, 21.0	0.150, 3.81
CMT2-3-8-2L	1.310, 33.3	1.100, 27.9	0.825, 21.0	0.150, 3.81
CMT2-6.5-2L	1.310, 33.3	1.300, 33.0	0.825, 21.0	0.150, 3.81
CMT2-1.9-4L	1.310, 33.3	1.100, 27.9	0.825, 21.0	0.150, 3.81
CMT2-3.3-4L	1.310, 33.3	1.300, 33.0	0.825, 21.0	0.150, 3.81
CMT2-1.5-6L	1.310, 33.3	1.100, 27.9	0.825, 21.0	0.150, 3.81
CMT2-2.6-6L	1.400, 35.6	1.400, 35.6	0.900, 22.9	0.150, 3.81
CMT2-9-9L	1.310, 33.3	1.200, 30.5	0.825, 21.0	0.150, 3.81
CMT2-1.5-9L	1.250, 31.8	1.250, 31.8	0.825, 21.0	0.150, 3.81
CMT2-7-12L	1.250, 31.8	1.200, 30.5	0.825, 21.0	0.150, 3.81
CMT2-1.2-12L	1.250, 31.8	1.200, 30.5	0.825, 21.0	0.150, 3.81
CMT2-5-15L	1.300, 33.0	1.300, 33.0	0.825, 21.0	0.150, 3.81
CMT2-8-15L	1.250, 31.8	1.200, 30.5	0.825, 21.0	0.150, 3.81
CMT3-32-1L	1.650, 41.9	1.400, 35.6	0.925, 23.5	0.150, 3.81
CMT3-56-1L	1.650, 41.9	1.650, 41.9	0.925, 23.5	0.150, 3.81
CMT3-16-2L	1.650, 41.9	1.400, 35.6	0.925, 23.5	0.150, 3.81
CMT3-28-2L	1.650, 41.9	1.650, 41.9	0.925, 23.5	0.150, 3.81
CMT3-8-4L	1.650, 41.9	1.350, 34.3	0.925, 23.5	0.150, 3.81
CMT3-14-4L	1.650, 41.9	1.700, 43.2	0.950, 24.1	0.150, 3.81
CMT3-6.6-6L	1.600, 40.6	1.400, 35.6	0.925, 23.5	0.150, 3.81
CMT3-11.5-6L	1.650, 41.9	1.700, 43.2	0.925, 23.5	0.150, 3.81
CMT3-4-9L	1.450, 36.8	1.400, 35.6	0.925, 23.5	0.150, 3.81
CMT3-7-9L	1.760, 44.7	1.760, 44.7	0.975, 24.8	0.150, 3.81
CMT3-3-12L	1.700, 43.2	1.700, 43.2	0.950, 24.1	0.150, 3.81
CMT3-5.2-12L	1.700, 43.2	1.700, 43.2	1.000, 25.4	0.150, 3.81
CMT3-2.5-15L	1.750, 44.5	1.750, 44.5	1.000, 25.4	0.150, 3.81
CMT3-4.4-15L	1.700, 43.2	1.700, 43.2	1.000, 25.4	0.150, 3.81
CMT4-72-1L	2.100, 53.3	2.100, 53.3	1.130, 28.7	0.150, 3.81
CMT4-125-1L	2.150, 54.6	2.200, 55.9	1.130, 28.7	0.150, 3.81
CMT4-36-2L	2.150, 54.6	2.215, 56.3	1.130, 28.7	0.150, 3.81
CMT4-62-2L	2.150, 54.6	2.200, 55.9	1.130, 28.7	0.150, 3.81
CMT4-19-4L	2.180, 55.4	2.200, 55.9	1.130, 28.7	0.150, 3.81
CMT4-32-4L	2.180, 55.4	2.200, 55.9	1.130, 28.7	0.150, 3.81
CMT4-15-6L	2.180, 55.4	2.200, 55.9	1.130, 28.7	0.150, 3.81
CMT4-26-6L	2.180, 55.4	2.225, 56.5	1.130, 28.7	0.150, 3.81
CMT4-10-9L	2.180, 55.4	2.200, 55.9	1.130, 28.7	0.150, 3.81
CMT4-17-9L	2.250, 57.2	2.280, 57.9	1.150, 29.2	0.150, 3.81
CMT4-7.5-12L	2.250, 57.2	2.200, 55.9	1.130, 28.7	0.150, 3.81
CMT4-13-12L	2.300, 58.4	2.250, 57.2	1.130, 28.7	0.150, 3.81
CMT4-6-15L	2.250, 57.2	2.250, 57.2	1.150, 29.2	0.150, 3.81
CMT4-10-15L	2.300, 58.4	2.280, 57.9	1.130, 28.7	0.150, 3.81



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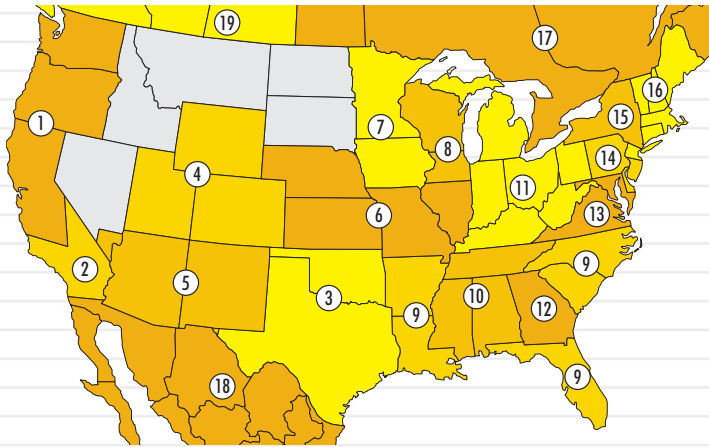
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Sales Headquarters

North America info@coilcraft.com
847-639-6400 Fax 847-639-1469

Europe sales@coilcraft-europe.com
+44-1236-730595 Fax +44-1236-730627

Hong Kong ellaleung@coilcraft-hk.com
+852-2770-9428 Fax +852-2770-0729

India saras@coilcraft.com.sg
+91-44 4230 7308 / +91-44 4230 7306

Japan mshibuya@coilcraft.co.jp
+81-427-20-5404 Fax +81-427-20-5405

Malaysia stephen_lim@coilcraft.com.sg
+60-4 6586144 Fax +60-4 659 5144

PRC sales@coilcraft.com.cn
+86-021-6218 8074 Fax +86-021-6218 9728

Singapore tchoo@coilcraft.com.sg
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