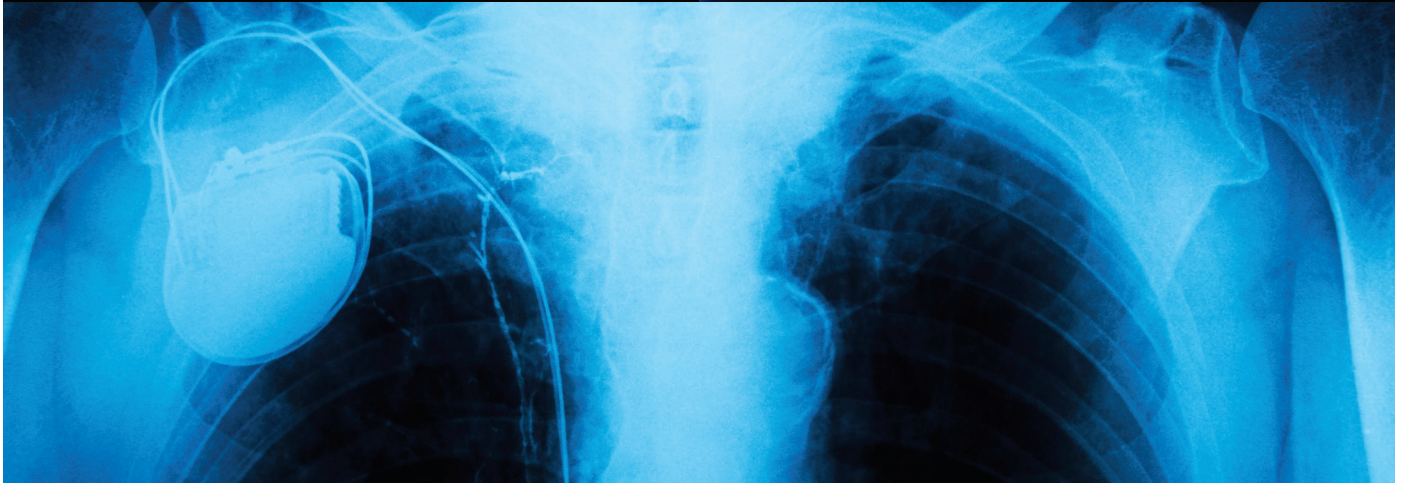
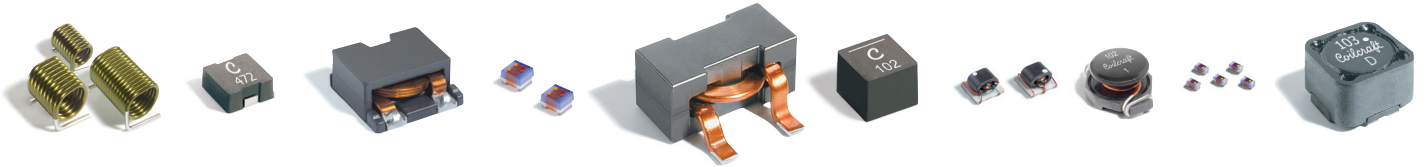


RF and Power Magnetics for Critical Applications



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Coilcraft CPS

Coilcraft Critical Products & Services is a division of Coilcraft, Inc., a leading global supplier of magnetic components including high performance RF chip inductors, power magnetics and filters.

For more than a decade, Coilcraft CPS has designed and built critical-grade components for use in military, aerospace, medical and other harsh-environment applications where durability and reliability are of paramount importance. To meet these demands, Coilcraft CPS tests components to extremes, far exceeding performance ratings of standard commercial parts. All components are manufactured, tested and certified by Coilcraft CPS without third-party alterations or testing, assuring complete and documented control of all processes.

All of Coilcraft's automotive components are manufactured in IATF 16949 certified facilities. In addition, all facilities have received ISO 9001 (Quality Management System) certification for the "Design and manufacture of SMT and leaded inductive components." This certification demonstrates that Coilcraft has operational quality systems in place that satisfy the rigorous demands of our customers.

Coilcraft CPS is also ITAR (International Traffic in Arms Regulations) registered. Registration has been issued to Coilcraft CPS by the US State Department Directorate of Defense Trade Controls (DDTC) Compliance Registration Division (CRD).



Need a Special Termination?

Coilcraft CPS can add special termination finishes to meet specific requirements for all surface mount or through-hole components. These special finishes can improve the solder fillet and ensure an exceptionally reliable solder joint.

Gold terminations can be replaced with tin-lead finishes for exempt applications. Special high-temperature terminations are also available for automotive and other demanding environments.

Chip Inductors

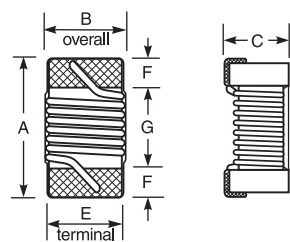
S-parameters & SPICE models
Available on our web site

Coilcraft CPS chip inductors cover the range from 0.5 nH to 1,000 µH. All except the RAM and RAB series are wound on ceramic bodies and offer high SRFs, exceptionally high Q and tight tolerances. The RAM and RAB series offer higher inductance values, very low DCR and high current ratings. Many parts are available with inductance tolerances as low as 1%.

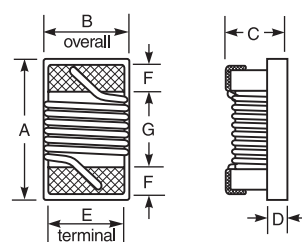
ST 220RAA (0402)

Part number	Inductance (nH)	Percent tolerance*	SRF min (GHz)	DCR max (Ohms)	Imax (mA)	1.7 GHz	
						L typ	Q typ
xx220RAA67XJLZ	0.67	10	<5.0	0.03	500	0.66	56
xx220RAA1N7XJLZ	1.7	5	<5.0	0.045	500	1.7	78
xx220RAA1N9XJLZ	1.9	5	<5.0	0.065	500	1.9	65
xx220RAA2N1XJLZ	2.1	5	<5.0	0.095	420	2.1	57
xx220RAA3N0XJLZ	3	5	<5.0	0.06	500	3	92
xx220RAA3N3XJLZ	3.3	5	<5.0	0.06	500	3.3	88
xx220RAA3N5XJLZ	3.5	5	<5.0	0.07	500	3.5	84
xx220RAA3N8XJLZ	3.8	5	<5.0	0.11	500	3.8	89
xx220RAA4N0XJLZ	4	5	<5.0	0.14	420	4	80
xx220RAA4N7XJLZ	4.7	5	<5.0	0.074	500	4.6	88
xx220RAA5N1XJLZ	5.1	5	<5.0	0.074	500	5.1	92
xx220RAA5N6XJLZ	5.6	5	<5.0	0.12	500	5.5	71
xx220RAA6N0XJLZ	6	5	<5.0	0.14	500	6	82
xx220RAA6N3XJLZ	6.3	5	<5.0	0.17	420	6.3	80
xx220RAA6N5XJLZ	6.5	5	<5.0	0.2	360	6.5	80
xx220RAA7N0XJLZ	7	5	<5.0	0.103	500	7.1	84
xx220RAA7N2XJLZ	7.2	5	<5.0	0.112	500	7.2	82
xx220RAA7N4XJLZ	7.4	5	<5.0	0.112	500	7.4	82
xx220RAA8N3XJLZ	8.3	5	<5.0	0.15	450	8.3	80
xx220RAA9N2XJLZ	9.2	5	<5.0	0.115	500	9	83
xx220RAA10N1XJLZ	10	5	<5.0	0.14	500	10.1	91
xx220RAA11N1XJLZ	11	5	<5.0	0.21	430	11.2	83
xx220RAA12N1XJLZ	12	5	<5.0	0.17	500	12.6	88
xx220RAA13N1XJLZ	13	5	4.8	0.23	430	13.3	83
xx220RAA15N1XJLZ	15	5	4.6	0.174	500	15.4	84
xx220RAA16N1XJLZ	16	5	4.6	0.21	440	16.4	85
xx220RAA17N1XJLZ	17	5	4.3	0.28	400	17.4	82
xx220RAA18N1XJLZ	18	5	4.2	0.35	340	18.5	80
xx220RAA19N1XJLZ	19	5	4	0.26	440	19.6	85
xx220RAA20N1XJLZ	20	5	3.9	0.3	380	20.2	88
xx220RAA21N1XJLZ	21	5	4	0.37	320	22	82
xx220RAA22N1XJLZ	22	5	3.8	0.42	270	23.1	79
xx220RAA23N1XJLZ	23.5	5	3.8	0.4	290	24.6	84
xx220RAA29N1XJLZ	29	5	3.4	0.47	310	30.5	75
xx220RAA34N1XJLZ	34	5	2.9	0.53	280	35.5	78

220RAA



235RAA



Dimensions

Series	A max	B max	C max	D ref	E	F	G
220RAA	0.034 0,86	0.022 0,56	0.018 0,45	—	0.015 0,38	0.010 0,25	0.014 0,36
235RAA	0.047 1,19	0.024 0,61	0.026 0,66	0.010 0,25	0.020 0,51	0.009 0,23	0.022 0,56

Which version of these parts should you use?

- AR** Passes NASA low outgassing specifications
Extended temperature applications: –65 up to 155°C Ambient
Leach resistant tin-lead, gold and other terminations available.
- MS** Extended temperature applications: –55 up to 155°C Ambient
Leach resistant tin-lead terminations
- ML** Extended temperature applications: –55 up to 155°C Ambient
- ST** Low temperature storage: –55°C
Extended qualification

NOTE: AR is an improved version of the AE. Existing customers using the AE will continue to be supported indefinitely.

AR MS ML ST 235RAA (0402)

Part number	Inductance (nH)	Percent tolerance*	SRF min (GHz)	DCR max (Ohms)	Imax (mA)	1.7 GHz	
						L typ	Q typ
xx235RAA1N0JLZ	1.0 @ 250 MHz	5	>5.00	0.045	600	1.02	69
xx235RAA1N2JLZ	1.2 @ 250 MHz	5	>5.00	0.090	740	1.17	38
xx235RAA1N8JLZ	1.8 @ 250 MHz	5	>5.00	0.070	600	1.78	75
xx235RAA1N9JLZ	1.9 @ 250 MHz	5	>5.00	0.070	600	1.74	82
xx235RAA2N0_LZ	2.0 @ 250 MHz	5,2	>5.00	0.070	600	1.93	75
xx235RAA2N2_LZ	2.2 @ 250 MHz	5,2	>5.00	0.070	600	2.23	100
xx235RAA2N4_LZ	2.4 @ 250 MHz	5,2	>5.00	0.068	600	2.27	68
xx235RAA2N7_LZ	2.7 @ 250 MHz	5,2	>5.00	0.120	640	2.60	61
xx235RAA3N3_LZ	3.3 @ 250 MHz	5,2,1	>5.00	0.066	600	3.12	87
xx235RAA3N6_LZ	3.6 @ 250 MHz	5,2,1	>5.00	0.066	600	3.62	71
xx235RAA3N9_LZ	3.9 @ 250 MHz	5,2,1	>5.00	0.066	600	4.00	75
xx235RAA4N3_LZ	4.3 @ 250 MHz	5,2,1	>5.00	0.091	600	4.30	71
xx235RAA4N7_LZ	4.7 @ 250 MHz	5,2,1	4.77	0.130	600	4.68	68
xx235RAA5N1_LZ	5.1 @ 250 MHz	5,2,1	4.80	0.083	600	5.25	82
xx235RAA5N6_LZ	5.6 @ 250 MHz	5,2,1	4.80	0.083	600	5.28	81
xx235RAA6N2_LZ	6.2 @ 250 MHz	5,2,1	4.80	0.083	600	6.37	76
xx235RAA6N8_LZ	6.8 @ 250 MHz	5,2,1	4.80	0.083	600	6.93	78
xx235RAA7N5_LZ	7.5 @ 250 MHz	5,2,1	4.80	0.104	600	8.22	88
xx235RAA8N2_LZ	8.2 @ 250 MHz	5,2,1	4.40	0.104	600	8.85	84
xx235RAA8N7_LZ	8.7 @ 250 MHz	5,2,1	3.80	0.195	480	9.21	73
xx235RAA9N0_LZ	9.0 @ 250 MHz	5,2,1	4.66	0.100	680	9.53	78
xx235RAA9N5_LZ	9.5 @ 250 MHz	5,2,1	3.48	0.195	480	9.98	69
xx235RAA10N_LZ	10 @ 250 MHz	5,2,1	3.68	0.195	480	10.10	67
xx235RAA11N_LZ	11 @ 250 MHz	5,2,1	3.48	0.120	580	11.20	78
xx235RAA12N_LZ	12 @ 250 MHz	5,2,1	3.60	0.120	580	12.70	71
xx235RAA13N_LZ	13 @ 250 MHz	5,2,1	3.28	0.210	440	14.63	57
xx235RAA15N_LZ	15 @ 250 MHz	5,2,1	3.10	0.172	500	15.50	77
xx235RAA16N_LZ	16 @ 250 MHz	5,2,1	3.05	0.220	480	18.86	47
xx235RAA18N_LZ	18 @ 250 MHz	5,2,1	2.68	0.230	420	20.28	62
xx235RAA19N_LZ	19 @ 250 MHz	5,2,1	3.00	0.202	460	21.10	67
xx235RAA20N_LZ	20 @ 250 MHz	5,2,1	2.90	0.250	400	23.66	53
xx235RAA22N_LZ	22 @ 250 MHz	5,2,1	2.80	0.300	380	26.75	53
xx235RAA23N_LZ	23 @ 250 MHz	5,2,1	2.72	0.300	400	26.90	64
xx235RAA24N_LZ	24 @ 250 MHz	5,2,1	2.60	0.300	390	29.50	50
xx235RAA27N_LZ	27 @ 250 MHz	5,2,1	2.48	0.298	380	33.50	63
xx235RAA30N_LZ	30 @ 250 MHz	5,2,1	2.35	0.300	340	38.50	39
xx235RAA33N_LZ	33 @ 250 MHz	5,2,1	2.30	0.300	340	41.74	32
xx235RAA36N_LZ	36 @ 250 MHz	5,2,1	2.20	0.440	310	48.40	53
xx235RAA39N_LZ	39 @ 250 MHz	5,2	2.10	0.550	200	50.23	45
xx235RAA40N_LZ	40 @ 250 MHz	5,2,1	2.24	0.440	290	47.40	33
xx235RAA43N_LZ	43 @ 250 MHz	5,2	2.03	0.810	100	61.55	34
xx235RAA47N_LZ	47 @ 250 MHz	5,2	2.10	0.830	150	—	—
xx235RAA51N_LZ	51 @ 250 MHz	5,2	1.75	0.820	100	—	—
xx235RAA56N_LZ	56 @ 250 MHz	5,2	1.76	0.966	100	—	—
xx235RAA68N_LZ	68 @ 250 MHz	5,2	1.62	1.120	100	—	—
xx235RAA82N_LZ	82 @ 250 MHz	5,2	1.26	1.550	100	—	—
xx235RAAR10_LZ	100 @ 250 MHz	5,2	1.16	2.000	50	—	—
xx235RAAR12_LZ	120 @ 250 MHz	5,2	1.20	1.780	50	—	—

* When ordering, please replace underscore in part number with the proper tolerance code: F = 1%, G = 2%, J = 5%. Specify the version desired (e.g. AE235RAAR12GSZ for an outgassing compliant part with a 2% tolerance).

AR ST 235RAG (0402)

Part number	Inductance (nH)	Percent tolerance*	SRF min (GHz)	DCR max (Ohms)	Imax (mA)	1.7 GHz	
						L typ	Q typ
xx235RAG1N0JLZ	1.0 @ 250 MHz	5	>5.00	0.030	700	0.99	72
xx235RAG2N0JLZ	2.0 @ 250 MHz	5	>5.00	0.038	700	1.98	85
xx235RAG2N2JLZ	2.2 @ 250 MHz	5	>5.00	0.038	700	2.17	86
xx235RAG2N4_LZ	2.4 @ 250 MHz	5.2	>5.00	0.042	700	2.38	83
xx235RAG2N7_LZ	2.7 @ 250 MHz	5.2	>5.00	0.090	510	2.68	85
xx235RAG3N3_LZ	3.3 @ 250 MHz	5.2	>5.00	0.045	700	3.28	95
xx235RAG3N6_LZ	3.6 @ 250 MHz	5.2	>5.00	0.045	700	3.58	94
xx235RAG3N9_LZ	3.9 @ 250 MHz	5.2	>5.00	0.045	700	3.91	98
xx235RAG4N3_LZ	4.3 @ 250 MHz	5.2	>5.00	0.055	700	4.33	90
xx235RAG4N7_LZ	4.7 @ 250 MHz	5.2	>5.00	0.085	700	4.74	83
xx235RAG5N1_LZ	5.1 @ 250 MHz	5.2	>5.00	0.125	510	5.16	76
xx235RAG5N6_LZ	5.6 @ 250 MHz	5.2	>5.00	0.055	700	5.66	105
xx235RAG6N2_LZ	6.2 @ 250 MHz	5.2	>4.20	0.055	700	6.25	100
xx235RAG6N8_LZ	6.8 @ 250 MHz	5.2	>4.00	0.070	700	6.97	94
xx235RAG7N5_LZ	7.5 @ 250 MHz	5.2	3.80	0.100	690	7.77	82
xx235RAG8N2_LZ	8.2 @ 250 MHz	5.2	3.80	0.065	700	8.40	95
xx235RAG8N7_LZ	8.7 @ 250 MHz	5.2	3.40	0.070	700	9.04	95
xx235RAG9N0_LZ	9.0 @ 250 MHz	5.2	3.50	0.080	700	9.21	92
xx235RAG9N5_LZ	9.5 @ 250 MHz	5.2	3.40	0.090	700	9.97	90
xx235RAG10N_LZ	10 @ 250 MHz	5.2	3.20	0.110	700	10.4	90
xx235RAG11N_LZ	11 @ 250 MHz	5.2	3.20	0.065	700	11.6	98
xx235RAG12N_LZ	12 @ 250 MHz	5.2	3.00	0.100	700	12.6	100
xx235RAG13N_LZ	13 @ 250 MHz	5.2	2.95	0.155	600	13.9	82
xx235RAG15N_LZ	15 @ 250 MHz	5.2	2.70	0.115	700	16.0	85
xx235RAG16N_LZ	16 @ 250 MHz	5.2	2.55	0.150	580	17.3	77
xx235RAG18N_LZ	18 @ 250 MHz	5.2	2.40	0.125	650	19.5	74
xx235RAG19N_LZ	19 @ 250 MHz	5.2	2.20	0.150	600	20.7	88
xx235RAG20N_LZ	20 @ 250 MHz	5.2	2.15	0.185	520	22.0	76
xx235RAG21N_LZ	21 @ 250 MHz	5.2	2.20	0.460	340	23.2	62
xx235RAG22N_LZ	22 @ 250 MHz	5.2	1.80	0.165	570	24.4	74
xx235RAG23N_LZ	23 @ 250 MHz	5.2	1.75	0.165	520	25.5	77
xx235RAG24N_LZ	24 @ 250 MHz	5.2	1.75	0.210	480	27.1	71
xx235RAG25N_LZ	25 @ 250 MHz	5.2	1.75	0.260	440	28.3	73
xx235RAG26N_LZ	26 @ 250 MHz	5.2	1.75	0.290	440	29.3	74
xx235RAG27N_LZ	27 @ 250 MHz	5.2	1.75	0.350	340	29.5	86
xx235RAG30N_LZ	30 @ 250 MHz	5.2	1.75	0.350	340	35.0	87
xx235RAG33N_LZ	33 @ 250 MHz	5.2	1.65	0.310	340	38.3	80
xx235RAG36N_LZ	36 @ 250 MHz	5.2	1.65	0.390	320	42.2	76
xx235RAG37N_LZ	37 @ 250 MHz	5.2	1.65	0.480	300	44.0	72
xx235RAG39N_LZ	39 @ 250 MHz	5.2	1.65	0.420	320	47.0	84
xx235RAG40N_LZ	40 @ 250 MHz	5.2	1.65	0.420	320	47.4	75
xx235RAG43N_LZ	43 @ 250 MHz	5.2	1.65	0.520	290	54.1	68
xx235RAG47N_LZ	47 @ 250 MHz	5.2	1.65	0.580	270	58.9	62
xx235RAG51N_LZ	51 @ 250 MHz	5.2	1.65	0.700	240	58.8	59
xx235RAG56N_LZ	56 @ 250 MHz	5.2	1.65	0.900	250	72.2	64
xx235RAG68N_LZ	68 @ 250 MHz	5.2	1.60	1.00	230	91.4	64
xx235RAG82N_LZ	82 @ 250 MHz	5.2	1.60	1.10	200	—	—
xx235RAGR10_LZ	100 @ 250 MHz	5.2	1.40	1.20	180	—	—
xx235RAGR12JLZ	120 @ 250 MHz	5	1.40	1.20	170	—	—
xx235RAGR15JLZ	150 @ 100 MHz	5	1.40	2.0	160	—	—
xx235RAGR18JLZ	180 @ 100 MHz	5	1.40	2.1	150	—	—
xx235RAGR22JLZ	220 @ 100 MHz	5	1.40	3.1	150	—	—

ST 312RAM (0603) Ferrite

Part number	Inductance ±5% (nH)	Qmin	Impedance typ (Ohms)		SRF min (GHz)	DCR max (Ohms)	Imax (A)
			100 MHz	500 MHz			
xx312RAM15NJRZ	15 @ 7.9 MHz	10	10	42	2.80	0.023	1.7
xx312RAM33NJRZ	33 @ 7.9 MHz	10	19	90	1.84	0.028	1.7
xx312RAM111JLZ	110 @ 7.9 MHz	12	70	350	0.980	0.060	1.4
xx312RAM121JLZ	120 @ 7.9 MHz	12	76	410	0.920	0.089	1.4
xx312RAM241JLZ	240 @ 7.9 MHz	12	140	810	0.720	0.12	0.68
xx312RAM271JLZ	270 @ 7.9 MHz	12	173	1023	0.600	0.22	0.68
xx312RAM471JLZ	470 @ 7.9 MHz	12	306	2253	0.460	0.37	0.61
xx312RAM561JLZ	560 @ 7.9 MHz	12	371	3180	0.400	0.49	0.53
xx312RAM681JLZ	680 @ 7.9 MHz	12	420	3620	0.420	0.46	0.53
xx312RAM821JLZ	820 @ 7.9 MHz	12	507	3300	0.260	0.58	0.53
xx312RAM102JLZ	1000 @ 7.9 MHz	13	663	9823	0.320	0.84	0.40
xx312RAM222JLZ	2200 @ 7.9 MHz	12	5220	129	0.065	1.1	0.40
xx312RAM472JLZ	4700 @ 7.9 MHz	12	2100	220	0.045	1.5	0.40
xx312RAM103JLZ	10000 @ 2.5 MHz	9	1400	150	0.030	4.5	0.40

AR MS ML ST 312RAA (0603)

Part number	Inductance (nH)	Percent tolerance*	SRF min (GHz)	DCR max (Ohms)	Imax (mA)	1.7 GHz	
						L typ	Q typ
xx312RAA1N6JLZ	1.6 @ 250 MHz	5	>5.00	0.022	700	1.65	63
xx312RAA1N8JLZ	1.8 @ 250 MHz	5	>5.00	0.045	700	1.86	50
xx312RAA2N2JLZ	2.2 @ 250 MHz	5	>5.00	0.24	100	2.24	44
xx312RAA3N3_LZ	3.3 @ 250 MHz	5.2	>5.00	0.045	700	3.38	88
xx312RAA3N6_LZ	3.6 @ 250 MHz	5.2	>5.00	0.063	700	3.71	65
xx312RAA3N9_LZ	3.9 @ 250 MHz	5.2	>5.00	0.08	700	3.96	67
xx312RAA4N3_LZ	4.3 @ 250 MHz	5.2	>5.00	0.063	700	4.33	70
xx312RAA4N7_LZ	4.7 @ 250 MHz	5.2	>5.00	0.116	605	4.75	57
xx312RAA5N1_LZ	5.1 @ 250 MHz	5.2	>5.00	0.14	510	4.95	56
xx312RAA5N6_LZ	5.6 @ 250 MHz	5.2,1	4.76	0.075	700	6.05	80
xx312RAA6N8_LZ	6.8 @ 250 MHz	5.2,1	4.66	0.11	700	7.10	81
xx312RAA7N5_LZ	7.5 @ 250 MHz	5.2,1	4.32	0.106	700	7.82	65
xx312RAA8N2_LZ	8.2 @ 250 MHz	5.2,1	3.88	0.115	700	8.37	87
xx312RAA8N7_LZ	8.7 @ 250 MHz	5.2,1	3.68	0.109	700	9.32	58
xx312RAA9N5_LZ	9.5 @ 250 MHz	5.2,1	4.10	0.135	700	9.92	61
xx312RAA10N_LZ	10 @ 250 MHz	5.2,1	3.86	0.13	700	10.6	83
xx312RAA11N_LZ	11 @ 250 MHz	5.2,1	3.64	0.13	700	11.5	56
xx312RAA12N_LZ	12 @ 250 MHz	5.2,1	3.22	0.13	620	13.5	83
xx312RAA15N_LZ	15 @ 250 MHz	5.2,1	3.02	0.17	600	16.8	89
xx312RAA16N_LZ	16 @ 250 MHz	5.2,1	3.04	0.17	600	17.3	52
xx312RAA18N_LZ	18 @ 250 MHz	5.2,1	2.68	0.17	600	21.4	69
xx312RAA22N_LZ	22 @ 250 MHz	5.2,1	2.38	0.19	560	26.1	71
xx312RAA23N_LZ	23 @ 250 MHz	5.2,1	2.38	0.19	560	28.0	67
xx312RAA24N_LZ	24 @ 250 MHz	5.2,1	2.38	0.19	560	28.7	39
xx312RAA27N_LZ	27 @ 250 MHz	5.2,1	2.38	0.22	530	34.6	65
xx312RAA30N_LZ	30 @ 250 MHz	5.2,1	2.24	0.22	500	39.9	28
xx312RAA33N_LZ	33 @ 250 MHz	5.2,1	1.90	0.22	500	49.5	42
xx312RAA36N_LZ	36 @ 250 MHz	5.2,1	1.96	0.25	460	52.7	24
xx312RAA39N_LZ	39 @ 250 MHz	5.2,1	1.74	0.25	460	60.2	40
xx312RAA43N_LZ	43 @ 250 MHz	5.2,1	1.58	0.28	440	64.9	21
xx312RAA47N_LZ	47 @ 200 MHz	5.2,1	1.56	0.28	440	77.2	35
xx312RAA51N_LZ	51 @ 200 MHz	5.2,1	1.56	0.30	420	82.2	34
xx312RAA56N_LZ	56 @ 200 MHz	5.2,1	1.48	0.31	420	97.0	26
xx312RAA68N_LZ	68 @ 200 MHz	5.2,1	1.38	0.34	410	168	21
xx312RAA72N_LZ	72 @ 150 MHz	5.2,1	1.36	0.49	340	135	20
xx312RAA82N_LZ	82 @ 150 MHz	5.2,1	1.30	0.54	340	177	21
xx312RAAR10_LZ	100 @ 150 MHz	5.2,1	1.14	0.58	310	—	—
xx312RAAR11_LZ	110 @ 150 MHz	5.2,1	1.08	0.61	310	—	—
xx312RAAR12_LZ	120 @ 150 MHz	5.2,1	1.02	0.65	270	—	—
xx312RAAR15_LZ	150 @ 150 MHz	5.2,1	0.90	0.915	250	—	—
xx312RAAR18_LZ	180 @ 100 MHz	5.2,1	0.82	1.25	210	—	—
xx312RAAR20_LZ	200 @ 100 MHz	5.2	0.80	1.98	170	—	—
xx312RAAR21_LZ	210 @ 100 MHz	5.2	0.78	2.06	160	—	—
xx312RAAR22_LZ	220 @ 100 MHz	5.2	0.76	2.1	160	—	—
xx312RAAR25_LZ	250 @ 100 MHz	5.2	0.74	3.55	120	—	—
xx312RAAR27_LZ	270 @ 100 MHz	5.2	0.70	2.3	150	—	—
xx312RAAR33_LZ	330 @ 100 MHz	5.2	0.62	3.89	100	—	—
xx312RAAR39_LZ	390 @ 100 MHz	5.2	0.58	4.35	100	—	—

AR ST 312RAP (0603) High L

Part number	Inductance ±5% (nH)	Q typ	SRF min (MHz)	DCR max (Ohms)	Imax (mA)
xx312RAP391JRZ	390 @ 25 MHz	13 @ 25 MHz	400	1.05	330
xx312RAP471JRZ	470 @ 25 MHz	12 @ 25 MHz	200	1.15	300
xx312RAP511JRZ	510 @ 25 MHz	12 @ 25 MHz	340	1.20	300
xx312RAP561JRZ	560 @ 25 MHz	12 @ 25 MHz	330	1.35	300
xx312RAP681JRZ	680 @ 25 MHz	12 @ 25 MHz	310	1.80	260
xx312RAP821JRZ	820 @ 25 MHz	14 @ 25 MHz	290	2.45	190
xx312RAP102JRZ	1000 @ 25 MHz	14 @ 25 MHz	250	2.80	190
xx312RAP122JRZ	1200 @ 25 MHz	14 @ 25 MHz	230	3.20	180
xx312RAP152JRZ	1500 @ 25 MHz	15 @ 25 MHz	190	4.10	150
xx312RAP182JRZ	1800 @ 25 MHz	16 @ 25 MHz	180	5.30	140
xx312RAP222JRZ	2200 @ 25 MHz	16 @ 25 MHz	165	5.90	130
xx312RAP272JRZ	2700 @ 25 MHz	16 @ 25 MHz	150	7.00	120
xx312RAP332JRZ	3300 @ 25 MHz	18 @ 25 MHz	135	9.10	110

* When ordering, please replace underscore in part number with the proper tolerance code: F = 1%, G = 2%, J = 5%. Specify the version desired (e.g. AE312RAA101GSZ for an outgassing compliant part with a 2% tolerance).

† Part not available in AR version.

AR ST 312RAG (0603)

Part number	Inductance (nH)	Percent tolerance*	SRF min (GHz)	DCR max (Ohms)	Imax (mA)	1.7 GHz	
						L typ	Q typ
xx312RAG1N8JLZ	1.8 @ 250 MHz	5	>5.00	0.035	800	1.77	65
xx312RAG2N2JLZ	2.2 @ 250 MHz	5	>5.00	0.205	250	2.12	35
xx312RAG3N3_LZ	3.3 @ 250 MHz	5.2	>5.00	0.030	800	3.32	104
xx312RAG3N6_LZ	3.6 @ 250 MHz	5.2	>5.00	0.033	800	3.62	116
xx312RAG3N9_LZ	3.9 @ 250 MHz	5.2	>5.00	0.045	800	3.95	108
xx312RAG4N3_LZ	4.3 @ 250 MHz	5.2	>5.00	0.080	710	4.31	91
xx312RAG4N7_LZ	4.7 @ 250 MHz	5.2	>5.00	0.100	720	4.71	75
xx312RAG5N1_LZ	5.1 @ 250 MHz	5.2	>5.00	0.042	800	5.12	140
xx312RAG5N6_LZ	5.6 @ 250 MHz	5.2	>5.00	0.042	800	5.73	145
xx312RAG6N0_LZ	6.0 @ 250 MHz	5.2	4.80	0.053	800	6.12	154
xx312RAG6N8_LZ	6.8 @ 250 MHz	5.2	4.64	0.050	800	7.05	143
xx312RAG7N2_LZ	7.2 @ 250 MHz	5.2	4.32	0.080	800	7.38	139
xx312RAG7N5_LZ	7.5 @ 250 MHz	5.2	4.24	0.100	800	7.85	112
xx312RAG8N2_LZ	8.2 @ 250 MHz	5.2	4.72	0.054	800	8.39	148
xx312RAG8N7_LZ	8.7 @ 250 MHz	5.2	4.40	0.054	800	9	149
xx312RAG9N1_LZ	9.1 @ 250 MHz	5.2	4.08	0.054	800	9.64	109
xx312RAG9N5_LZ	9.5 @ 250 MHz	5.2	3.92	0.053	800	9.99	149
xx312RAG10N_LZ	10 @ 250 MHz	5.2	3.44	0.054	800	10.64	142
xx312RAG11N_LZ	11 @ 250 MHz	5.2	3.28	0.075	800	11.82	108
xx312RAG12N_LZ	12 @ 250 MHz	5.2	3.28	0.110	750	13.2	91
xx312RAG15N_LZ	15 @ 250 MHz	5.2	2.88	0.085	800	17.2	124
xx312RAG16N_LZ	16 @ 250 MHz	5.2	2.80	0.095	790	18.7	116
xx312RAG18N_LZ	18 @ 250 MHz	5.2	2.64	0.075	800	20.9	100
xx312RAG22N_LZ	22 @ 250 MHz	5.2	2.52	0.140	600	25.9	88
xx312RAG23N_LZ	23 @ 250 MHz	5.2	2.40	0.195	560	29.53	80
xx312RAG24N_LZ	24 @ 250 MHz	5.2	2.36	0.085	800	28.9	91
xx312RAG27N_LZ	27 @ 250 MHz	5.2	2.24	0.150	620	34	84
xx312RAG30N_LZ	30 @ 250 MHz	5.2	2.24	0.130	720	37.9	82
xx312RAG33N_LZ	33 @ 250 MHz	5.2	2.16	0.170	560	42.9	80
xx312RAG36N_LZ	36 @ 250 MHz	5.2	2.00	0.225	480	50	64
xx312RAG39N_LZ	39 @ 250 MHz	5.2	1.96	0.190	540	51.9	74
xx312RAG43N_LZ	43 @ 250 MHz	5.2	1.96	0.170	630	58.1	76
xx312RAG47N_LZ	47 @ 200 MHz	5.2	1.84	0.270	440	66.9	72
xx312RAG51N_LZ	51 @ 200 MHz	5.2	1.84	0.280	440	71.3	62
xx312RAG56N_LZ	56 @ 200 MHz	5.2	1.76	0.30	420	79.9	56
xx312RAG68N_LZ	68 @ 200 MHz	5.2	1.60	0.33	400	113.3	49
xx312RAG72N_LZ	72 @ 150 MHz	5.2	1.52	0.42	380	—	—
xx312RAG75N_LZ	75 @ 150 MHz	5.2	1.52	0.52	340	—	—
xx312RAG82N_LZ	82 @ 150 MHz	5.2	1.44	0.46	350	—	—
xx312RAG91N_LZ	91 @ 150 MHz	5.2	1.32	0.58	310	—	—
xx312RAGR10_LZ	100 @ 150 MHz	5.2	1.36	0.54	340	—	—
xx312RAGR11_LZ	110 @ 150 MHz	5.2	1.28	0.58	310	—	—
xx312RAGR12_LZ	120 @ 150 MHz	5.2	1.24	0.72	280	—	—
xx312RAGR15_LZ	150 @ 150 MHz	5.2	1.08	0.82	260	—	—
xx312RAGR18_LZ	180 @ 100 MHz	5.2	1.04	1.50	190	—	—
xx312RAGR20_LZ	200 @ 100 MHz	5.2	1.00	2.00	180	—	—
xx312RAGR21_LZ	210 @ 100 MHz	5.2	0.96	2.00	170	—	—
xx312RAGR22_LZ	220 @ 100 MHz	5.2	0.88	2.00	170	—	—
xx312RAGR25_LZ	250 @ 100 MHz	5.2	0.84	3.00	130	—	—
xx312RAGR27_LZ	270 @ 100 MHz	5.2	0.84	2.25	160	—	—
xx312RAGR30_LZ	300 @ 100 MHz	5.2	0.79	2.40	170	—	—
xx312RAGR33_LZ†	330 @ 100 MHz	5.2	0.74	3.60	130	—	—
xx312RAGR36_LZ†	360 @ 100 MHz	5.2	0.74	4.00	120	—	—
xx312RAGR39_LZ†	390 @ 100 MHz	5.2	0.70	4.00	120	—	—

AE 312RBA (0603) Molded

Part number	Inductance (µH)	Q min	SRF min (MHz)	DCR max (Ohms)	Imax (A)
xx312RBA2N2JAZ	2.2 @ 250	11.6	5000	0.122	700
xx312RBA3N9JAZ	3.9 @ 250	16.0	5000	0.096	700
xx312RBA6N8JAZ	6.8 @ 250	24.6	5000	0.122	700
xx312RBA10NJAZ	10 @ 250	29	5000	0.135	700
xx312RBA18NJAZ	18 @ 250	33	2652	0.235	700
xx312RBA39NJAZ	39 @ 250	33	2235	0.321	460
xx312RBA47NJAZ	47 @ 200	35	2006	0.345	440
xx312RBA56NJAZ	56 @ 200	32	1420	0.395	420
xx312RBA68NJAZ	68 @ 200	34	1375	0.421	410
xx312RBA82NJAZ	82 @ 150	30	1581	0.565	400
xx312RBA12JAZ	120 @ 150	31.5	1062	0.839	270
xx312RBA15JAZ	150 @ 150	29	1160	0.92	250
xx312RBA20JAZ	200 @ 100	26	1040	1.96	170
xx312RBA22JAZ	220 @ 100	26	1045	2.14	160
xx312RBA27JAZ	270 @ 100	28	867	2.16	150
xx312RBA30JAZ	300 @ 100	23	850	3.07	120
xx312RBA39JAZ	390 @ 100	27	748	4.14	100

Which version of these parts should you use?

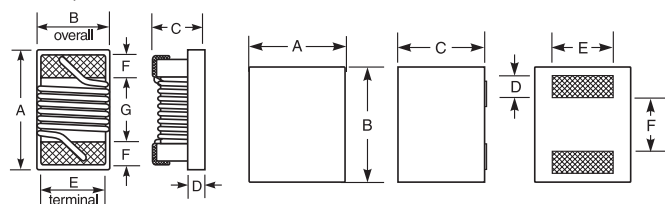
- AR** Passes NASA low outgassing specifications
Extended temperature applications: -65 up to 155°C Ambient
Leach resistant tin-lead, gold and other terminations available.
- AE** Passes NASA low outgassing specifications
Extended temperature applications: -55 up to 155°C Ambient
Leach resistant tin-lead, gold and other terminations available.
- MS** Extended temperature applications: -55 up to 155°C Ambient
Leach resistant tin-lead terminations
- ML** Extended temperature applications: -55 up to 155°C Ambient
- ST** Low temperature storage: -55°C
- CP** Extended qualification

NOTE: AR is an improved version of the AE. Existing customers using the AE will continue to be supported indefinitely.

CP 312RAB (0603) Ferrite

Part number	Inductance (nH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	Imax (mA)
xx312RAB47N_LZ	47 @ 7.9 MHz	5.2	12 @ 7.9 MHz	1500	0.075	1.40
xx312RAB51N_LZ	51 @ 7.9 MHz	5.2	12 @ 7.9 MHz	1400	0.075	1.00
xx312RAB72N_LZ	72 @ 7.9 MHz	5.2	12 @ 7.9 MHz	1400	0.12	1.40
xx312RAB101_LZ	100 @ 7.9 MHz	5.2	12 @ 7.9 MHz	1150	0.13	1.40
xx312RAB121_LZ	120 @ 7.9 MHz	5.2	12 @ 7.9 MHz	1100	0.15	1.40
xx312RAB151_LZ	150 @ 7.9 MHz	5.2	15 @ 7.9 MHz	1050	0.15	1.30
xx312RAB181_LZ	180 @ 7.9 MHz	5.2	15 @ 7.9 MHz	950	0.15	1.30
xx312RAB241_LZ	240 @ 7.9 MHz	5.2	15 @ 7.9 MHz	800	0.16	0.95
xx312RAB271_LZ	270 @ 7.9 MHz	5.2	15 @ 7.9 MHz	775	0.30	0.71
xx312RAB331_LZ	330 @ 7.9 MHz	5.2	15 @ 7.9 MHz	725	0.46	0.56
xx312RAB391_LZ	390 @ 7.9 MHz	5.2	15 @ 7.9 MHz	620	0.51	0.50
xx312RAB471_LZ	470 @ 7.9 MHz	5.2	15 @ 7.9 MHz	540	0.62	0.42
xx312RAB561_LZ	560 @ 7.9 MHz	5.2	15 @ 7.9 MHz	525	0.44	0.55
xx312RAB681_LZ	680 @ 7.9 MHz	5.2	15 @ 7.9 MHz	260	0.52	0.47
xx312RAB781_LZ	780 @ 7.9 MHz	5.2	15 @ 7.9 MHz	460	0.83	0.39
xx312RAB821_LZ	820 @ 7.9 MHz	5.2	15 @ 7.9 MHz	410	0.69	0.40
xx312RAB102_LZ	1000 @ 7.9 MHz	5.2	15 @ 7.9 MHz	190	0.81	0.40
xx312RAB122_LZ	1200 @ 7.9 MHz	5.2	15 @ 7.9 MHz	160	0.87	0.37
xx312RAB152_LZ	1500 @ 7.9 MHz	5.2	15 @ 7.9 MHz	100	0.96	0.35
xx312RAB182_LZ	1800 @ 7.9 MHz	5.2	15 @ 7.9 MHz	80	1.1	0.35
xx312RAB222_LZ	2200 @ 7.9 MHz	5.2	15 @ 7.9 MHz	68	1.2	0.32
xx312RAB272_LZ	2700 @ 7.9 MHz	5.2	15 @ 7.9 MHz	60	1.5	0.28
xx312RAB332_LZ	3300 @ 7.9 MHz	5.2	15 @ 7.9 MHz	42	1.5	0.28
xx312RAB392_LZ	3900 @ 7.9 MHz	5.2	15 @ 7.9 MHz	40	1.6	0.28
xx312RAB472_LZ	4700 @ 7.9 MHz	5.2	15 @ 7.9 MHz	34	2.1	0.26
xx312RAB562_LZ	5600 @ 7.9 MHz	5.2	15 @ 7.9 MHz	32	2.6	0.24
xx312RAB682_LZ	6800 @ 7.9 MHz	5.2	15 @ 7.9 MHz	31	3.1	0.20
xx312RAB782_LZ	7800 @ 7.9 MHz	5.2	15 @ 7.9 MHz	28	3.5	0.20
xx312RAB822_LZ	8200 @ 7.9 MHz	5.2	15 @ 7.9 MHz	26	3.6	0.19
xx312RAB103_LZ	10000 @ 2.5 MHz	5.2	12 @ 2.5 MHz	25	4.8	0.18
xx312RAB153_LZ	15000 @ 2.5 MHz	5.2	20 @ 2.5 MHz	23	7.1	0.17
xx312RAB183_LZ	18000 @ 2.5 MHz	5.2	20 @ 2.5 MHz	22	7.6	0.16
xx312RAB223_LZ	22000 @ 2.5 MHz	5.2	22 @ 2.5 MHz	19	8.81	0.13

235RAG, 312RAA,
312RAG, 312RAG,
312RAM, 312RAP



Dimensions

Series	A max	B max	C max	D ref	E	F	G
235RAG	0.043 1.09	0.028 0.71	0.024 0.61	0.010 0.25	0.020 0.51	0.008 0.20	0.024 0.61
312RAA	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 1.22
312RAB	0.071 1.80	0.046 1.17	0.044 1.12	0.015 0.38	0.030 0.76	0.013 0.33	0.034 1.22
312RAG	0.069 1.75	0.043 1.09	0.037 0.94	0.015 0.38	0.029 0.74	0.011 0.28	0.048 0.86
312RAM	0.071 1.80	0.044 1.12	0.036 0.91	0.015 0.38	0.030 0.76	0.013 0.33	0.034 0.86
312RAP	0.071 1.80	0.047 1.19	0.037 0.94	0.010 0.25	0.030 0.76	0.011 0.28	0.038 0.97
312RBA	0.081 2.06	0.051 1.30	0.049 1.25	0.013 0.33	0.031 0.79	0.034 0.86	

AE MS ML ST 336RAA (0805)

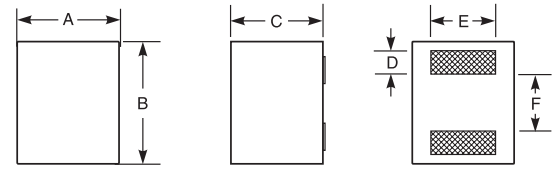
Part number	Inductance (nH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	I _{max} (mA)
xxx336RAA020JLZ	2.8 @ 250 MHz	5	57 @ 1000 MHz	5000	0.06	800
xx336RAA3N0JLZ	3.0 @ 250 MHz	5	61 @ 1000 MHz	5000	0.06	800
xx336RAA030JLZ	3.3 @ 250 MHz	5	48 @ 1000 MHz	5000	0.08	600
xx336RAA050JLZ	5.6 @ 250 MHz	5	75 @ 1000 MHz	4760	0.08	600
xx336RAA060JLZ	6.8 @ 250 MHz	5	54 @ 1000 MHz	4440	0.11	600
xx336RAA070JLZ	7.5 @ 250 MHz	5	56 @ 1000 MHz	3840	0.14	600
xx336RAA080_LZ	8.2 @ 250 MHz	5.2	63 @ 1000 MHz	3560	0.12	600
xx336RAA100_LZ	10 @ 250 MHz	5.2	57 @ 500 MHz	3460	0.10	600
xx336RAA120_LZ	12 @ 250 MHz	5.2	46 @ 500 MHz	3180	0.15	600
xx336RAA150_LZ	15 @ 250 MHz	5.2	41 @ 500 MHz	2560	0.17	600
xx336RAA180_LZ	18 @ 250 MHz	5.2	48 @ 500 MHz	2480	0.20	600
xx336RAA220_LZ	22 @ 250 MHz	5.2	59 @ 500 MHz	2080	0.22	500
xx336RAA240_LZ	24 @ 250 MHz	5.2	59 @ 500 MHz	1920	0.22	500
xx336RAA270_LZ	27 @ 250 MHz	5.2	56 @ 500 MHz	2060	0.25	500
xx336RAA330_LZ	33 @ 250 MHz	5.2,1	64 @ 500 MHz	1720	0.27	500
xx336RAA360_LZ	36 @ 250 MHz	5.2,1	57 @ 500 MHz	1520	0.27	500
xx336RAA390_LZ	39 @ 250 MHz	5.2,1	44 @ 250 MHz	1600	0.29	500
xx336RAA430_LZ	43 @ 200 MHz	5.2,1	45 @ 250 MHz	1440	0.34	500
xx336RAA470_LZ	47 @ 200 MHz	5.2,1	44 @ 250 MHz	1360	0.31	470
xx336RAA560_LZ	56 @ 200 MHz	5.2,1	49 @ 250 MHz	1280	0.34	460
xx336RAA680_LZ	68 @ 200 MHz	5.2,1	52 @ 250 MHz	1200	0.38	440
xx336RAA820_LZ	82 @ 150 MHz	5.2,1	51 @ 250 MHz	1060	0.42	400
xx336RAA910_LZ	91 @ 150 MHz	5.2,1	49 @ 250 MHz	1060	0.48	390
xx336RAA101_LZ	100 @ 150 MHz	5.2,1	54 @ 250 MHz	1000	0.46	390
xx336RAA111_LZ	110 @ 150 MHz	5.2	38 @ 250 MHz	880	0.48	390
xx336RAA121_LZ	120 @ 150 MHz	5.2,1	52 @ 250 MHz	880	0.51	380
xx336RAA151_LZ	150 @ 100 MHz	5.2,1	33 @ 100 MHz	730	0.56	340
xx336RAA181_LZ	180 @ 100 MHz	5.2,1	37 @ 100 MHz	730	0.64	340
xx336RAA221_LZ	220 @ 100 MHz	5.2	36 @ 100 MHz	650	0.70	330
xx336RAA241_LZ	240 @ 100 MHz	5.2	36 @ 100 MHz	610	1.00	270
xx336RAA271_LZ	270 @ 100 MHz	5.2	36 @ 100 MHz	580	1.00	260
xx336RAA331_LZ	330 @ 100 MHz	5.2	36 @ 100 MHz	520	1.40	230
xx336RAA391_LZ	390 @ 100 MHz	5.2	34 @ 100 MHz	480	1.50	210
xx336RAA471_LZ†	470 @ 50 MHz	5.2	24 @ 100 MHz	300	1.76	230
xx336RAA561_LZ†	560 @ 25 MHz	5.2	21 @ 50 MHz	260	1.90	210
xx336RAA681_LZ†	680 @ 25 MHz	5.2	21 @ 50 MHz	220	2.20	190
xx336RAA821_LZ†	820 @ 25 MHz	5.2	23 @ 50 MHz	240	2.35	170

ST 319RAD (0604) High Q

Part number	Inductance (nH)	Percent tolerance	SRF min (GHz)	DCR max (Ohms)	I _{max} (mA)	1.7 GHz L typ	Q typ
xx319RAD1N1JSZ	1.15 @ 500 MHz	5	>5.0	0.021	3.0	1.2	136
xx319RAD2N6JSZ	2.6 @ 500 MHz	5	>5.0	0.026	2.0	2.6	163
xx319RAD4N5JSZ	4.5 @ 500 MHz	5	>5.0	0.032	1.8	4.7	155
xx319RAD5N0JSZ	5.0 @ 500 MHz	5	>5.0	0.032	1.6	5.2	178
xx319RAD6N8JSZ	6.8 @ 500 MHz	5	4.7	0.035	1.8	7.4	172
xx319RAD7N6JSZ	7.6 @ 500 MHz	5	4.4	0.035	1.5	7.9	137
xx319RAD10NJSZ	10.4 @ 500 MHz	5	4.1	0.037	1.5	11.5	160

AE 336RBA (0805) Molded

Part number	Inductance (µH)	Q min	SRF min (MHz)	DCR max (Ohms)	I _{max} (A)
xx336RBA3N0JAZ	3.0 @ 250 MHz	71 @ 1000 MHz	5000	0.105	800
xx336RBA050JAZ	5.6 @ 250 MHz	63 @ 1000 MHz	4420	0.100	600
xx336RBA110JAZ	11 @ 250 MHz	54 @ 500 MHz	2975	0.144	600
xx336RBA330JAZ	33 @ 250 MHz	57 @ 500 MHz	1530	0.332	500
xx336RBA121JAZ	120 @ 150 MHz	51 @ 250 MHz	893	0.575	380
xx336RBA151JAZ	150 @ 100 MHz	32 @ 100 MHz	822	0.628	340
xx336RBA231JAZ	230 @ 100 MHz	32 @ 100 MHz	613	1.04	270
xx336RBA321JAZ	320 @ 100 MHz	33 @ 100 MHz	519	1.58	230
xx336RBA471JAZ	470 @ 50 MHz	30 @ 100 MHz	315	1.47	230
xx336RBA681JAZ	680 @ 25 MHz	23 @ 50 MHz	242	2.24	190
xx336RBA102JAZ	1000 @ 25 MHz	22 @ 25 MHz	220	3.00	150
xx336RBA222JAZ	2200 @ 25 MHz	18 @ 25 MHz	85	4.80	140
xx336RBA332JAZ	3300 @ 25 MHz	22 @ 25 MHz	110	8.07	80



Dimensions

Series	A max	B max	C max	D ref	E ref	F ref
336RBA	0.108 2,74	0.087 2,21	0.075 1,91	0.018 0,46	0.050 1,27	0.044 1,12

ST 336RAB (0805) High L

Part number	Inductance (µH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	I _{max} (A)
xx336RAB78N_LZ	0.078 @ 7.9 MHz	5.2	19 @ 7.9 MHz	1440	0.042	2.0
xx336RAB111_LZ	0.110 @ 7.9 MHz	5.2	19 @ 7.9 MHz	1200	0.05	2.0
xx336RAB471_LZ	0.470 @ 7.9 MHz	5.2	19 @ 7.9 MHz	500	0.31	0.470
xx336RAB681_LZ	0.680 @ 7.9 MHz	5.2	20 @ 7.9 MHz	400	0.46	0.590
xx336RAB102_LZ	1.0 @ 7.9 MHz	5.2	20 @ 7.9 MHz	340	0.69	0.500
xx336RAB122_LZ	1.2 @ 7.9 MHz	5.2	15 @ 7.9 MHz	280	1.20	0.400
xx336RAB152_LZ	1.5 @ 7.9 MHz	5.2	20 @ 7.9 MHz	275	1.03	0.490
xx336RAB182_LZ	1.8 @ 7.9 MHz	5.2	20 @ 7.9 MHz	246	1.15	0.410
xx336RAB222_LZ	2.2 @ 7.9 MHz	5.2	20 @ 7.9 MHz	106	1.28	0.365
xx336RAB272_LZ	2.7 @ 7.9 MHz	5.2	20 @ 7.9 MHz	105	1.48	0.350
xx336RAB332_LZ	3.3 @ 7.9 MHz	5.2	20 @ 7.9 MHz	83	1.57	0.330
xx336RAB392_LZ	3.9 @ 7.9 MHz	5.2	20 @ 7.9 MHz	52	1.70	0.300
xx336RAB472_LZ	4.7 @ 7.9 MHz	5.2	20 @ 7.9 MHz	50	1.87	0.280
xx336RAB682_LZ	6.8 @ 7.9 MHz	5.2	20 @ 7.9 MHz	35	2.25	0.260
xx336RAB822_LZ	8.2 @ 2.5 MHz	5.2	18 @ 2.5 MHz	27	2.55	0.250
xx336RAB103_LZ	10 @ 2.5 MHz	5.2	18 @ 2.5 MHz	21	3.45	0.200
xx336RAB153_LZ	15 @ 2.5 MHz	5.2	18 @ 2.5 MHz	17	5.03	0.180
xx336RAB223_LZ	22 @ 2.5 MHz	5.2	18 @ 2.5 MHz	13	6.18	0.150
xx336RAB273_LZ	27 @ 2.5 MHz	5.2	15 @ 2.5 MHz	11	11.04	0.120

AE MS ML ST 336RAD (0805) High Q

Part number	Inductance (nH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	I _{max} (mA)
xx336RAD2N5JSZ	2.5 @ 250 MHz	5	56 @ 1000 MHz	>5000	0.020	2.0
xx336RAD5N6JSZ	5.6 @ 250 MHz	5	83 @ 1000 MHz	4880	0.035	1.9
xx336RAD6N2JSZ	6.2 @ 250 MHz	5	80 @ 1000 MHz	4550	0.035	1.8
xx336RAD12NJSZ	12 @ 250 MHz	5	52 @ 500 MHz	2800	0.045	1.6
xx336RAD16N_SZ	16 @ 250 MHz	5.2	72 @ 500 MHz	2400	0.060	1.4
xx336RAD18N_SZ	18 @ 250 MHz	5.2	70 @ 500 MHz	2200	0.060	1.4
xx336RAD20N_SZ	20 @ 250 MHz	5.2	54 @ 250 MHz	2050	0.060	1.4
xx336RAD27N_SZ	27 @ 250 MHz	5.2,1	58 @ 250 MHz	2000	0.070	1.3
xx336RAD30N_SZ	30 @ 250 MHz	5.2,1	50 @ 250 MHz	1740	0.095	1.1
xx336RAD39N_SZ	39 @ 250 MHz	5.2,1	53 @ 250 MHz	1600	0.110	1.0
xx336RAD48N_SZ	48 @ 200 MHz	5.2,1	44 @ 150 MHz	1400	0.095	1.1
xx336RAD51N_SZ	51 @ 200 MHz	5.2,1	36 @ 150 MHz	1280	0.120	0.9

MS ML ST 413RAA (1008)

Part number	Inductance (nH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	I _{max} (mA)
xx413RAA100_LZ	10 @ 50 MHz	5.2	44 @ 500 MHz	3060	0.08	900
xx413RAA120_LZ	12 @ 50 MHz	5.2	45 @ 500 MHz	2680	0.09	900
xx413RAA150_LZ	15 @ 50 MHz	5.2	50 @ 500 MHz	2220	0.10	850
xx413RAA180_LZ	18 @ 50 MHz	5.2,1	50 @ 350 MHz	2200	0.11	900
xx413RAA220_LZ	22 @ 50 MHz	5.2,1	55 @ 350 MHz	2100	0.12	900
xx413RAA270_LZ	27 @ 50 MHz	5.2	55 @ 350 MHz	1380	0.13	900
xx413RAA330_LZ	33 @ 50 MHz	5.2	60 @ 350 MHz	1600	0.14	850
xx413RAA390_LZ	39 @ 50 MHz	5.2	60 @ 350 MHz	1420	0.15	850
xx413RAA470_LZ	47 @ 50 MHz	5.2,1	65 @ 350 MHz	1420	0.16	820
xx413RAA560_LZ	56 @ 50 MHz	5.2,1	60 @ 350 MHz	1140	0.18	780
xx413RAA680_LZ	68 @ 50 MHz	5.2,1	46 @ 100 MHz	1140	0.20	710
xx413RAA820_LZ	82 @ 50 MHz	5.2,1	48 @ 100 MHz	940	0.22	710
xx413RAA101_LZ	100 @ 25 MHz	5.2,1	37 @ 100 MHz	900	0.56	440
xx413RAA121_LZ	120 @ 25 MHz	5.2,1	40 @ 100 MHz	840	0.63	410
xx413RAA151_LZ	150 @ 25 MHz	5.2,1	40 @ 100 MHz	740	0.70	400
xx413RAA181_LZ	180 @ 25 MHz	5.2,1	38 @ 100 MHz	680	0.77	390
xx413RAA221_LZ	220 @ 25 MHz	5.2,1	40 @ 100 MHz	580	0.84	370
xx413RAA271_LZ	270 @ 25 MHz	5.2,1	45 @ 100 MHz	540	0.91	330
xx413RAA331_LZ	330 @ 25 MHz	5.2,1	45 @ 100 MHz	500	1.05	330
xx413RAA391_LZ	390 @ 25 MHz	5.2,1	45 @ 100 MHz	480	1.12	310
xx413RAA471_LZ	470 @ 25 MHz	5.2,1	45 @ 100 MHz	400	1.19	280
xx413RAA561_LZ	560 @ 25 MHz	5.2,1	40 @ 100 MHz	360	1.33	280
xx413RAA621_LZ	620 @ 25 MHz	5.2,1	45 @ 100 MHz	360	1.40	270
xx413RAA681_LZ	680 @ 25 MHz	5.2,1	45 @ 100 MHz	345	1.47	270
xx413RAA751_LZ	750 @ 25 MHz	5.2,1	45 @ 100 MHz	335	1.54	270
xx413RAA821_LZ	820 @ 25 MHz	5.2,1	45 @ 100 MHz	310	1.61	250
xx413RAA911_LZ	910 @ 25 MHz	5.2,1	35 @ 50 MHz	280	1.68	250
xx413RAA102_LZ	1000 @ 25 MHz	5.2,1	34 @ 50 MHz	280	1.75	230
xx413RAA122_LZ†	1200 @ 7.9 MHz	5.2	32 @ 50 MHz	220	2.0	230
xx413RAA152_LZ†	1500 @ 7.9 MHz	5.2	28 @ 50 MHz	180	2.3	220
xx413RAA182_LZ†	1800 @ 7.9 MHz	5.2	28 @ 50 MHz	160	2.6	210
xx413RAA222_LZ†	2200 @ 7.9 MHz	5.2	19 @ 7.9 MHz	150	2.8	190
xx413RAA272_LZ†	2700 @ 7.9 MHz	5.2	20 @ 7.9 MHz	110	3.2	180
xx413RAA332_LZ†	3300 @ 7.9 MHz	5.2	20 @ 7.9 MHz	110	3.4	160
xx413RAA392_LZ†	3900 @ 7.9 MHz	5.2	20 @ 7.9 MHz	85	3.6	160
xx413RAA472_LZ†	4700 @ 7.9 MHz	5.2	13 @ 2.5 MHz	75	4.0	160
xx413RAA562JLZ†	5600 @ 7.9 MHz	5	14 @ 2.5 MHz	20	4.0	150
xx413RAA682JLZ†	6800 @ 7.9 MHz	5	14 @ 2.5 MHz	40	4.9	150
xx413RAA822JLZ†	8200 @ 2.5 MHz	5	14 @ 2.5 MHz	25	6.5	110



ML ST 336RAM (0805)

Part number	Inductance ±5% (nH)	Q min	Impedance typ (Ohms)	SRF min (MHz)	DCR max (Ohms)	Imax (mA)
xx336RAM111JRZ	110 @ 7.9 MHz	14 @ 7.9 MHz	370 @ 500MHz	1000	0.05	700
xx336RAM681JRZ	680 @ 7.9 MHz	15 @ 7.9 MHz	430 @ 100 MHz	340	0.30	410
xx336RAM102JRZ	1000 @ 7.9 MHz	13 @ 7.9 MHz	670 @ 100 MHz	280	0.39	360
xx336RAM122JRZ	1200 @ 7.9 MHz	15 @ 7.9 MHz	860 @ 100 MHz	300	0.64	260
xx336RAM152JRZ	1500 @ 7.9 MHz	16 @ 7.9 MHz	1000 @ 100 MHz	225	0.74	250
xx336RAM182JRZ	1800 @ 7.9 MHz	16 @ 7.9 MHz	1360 @ 100 MHz	240	0.98	210
xx336RAM222JRZ	2200 @ 7.9 MHz	15 @ 7.9 MHz	840 @ 50 MHz	90	0.98	190
xx336RAM272JRZ	2700 @ 7.9 MHz	15 @ 7.9 MHz	1050 @ 50MHz	80	1.16	190
xx336RAM332JRZ	3300 @ 7.9 MHz	15 @ 7.9 MHz	1670 @ 50 MHz	65	1.20	190
xx336RAM472JRZ	4700 @ 7.9 MHz	14 @ 7.9 MHz	950 @ 25 MHz	40	1.50	170
xx336RAM682JRZ	6800 @ 7.9 MHz	14 @ 7.9 MHz	450 @ 10MHz	28	1.90	150
xx336RAM103JRZ	10000 @ 2.5 MHz	14 @ 2.5 MHz	740 @ 10 MHz	18	2.20	130
xx336RAM153JRZ	15000 @ 2.5 MHz	13 @ 2.5 MHz	1300 @ 10MHz	15	4.25	90
xx336RAM223JRZ	22000 @ 2.5 MHz	13 @ 2.5 MHz	1620 @ 10 MHz	15	6.70	75

ST 413RAB (1008) High L

Part number	Inductance ±5% (µH)	Q min	SRF min (MHz)	DCR max (Ohms)	Imax (mA)
xx413RAB102XJLZ	1.0 @ 7.9 MHz	16 @ 2.5 MHz	230	0.62	370
xx413RAB122XJLZ	1.2 @ 7.9 MHz	18 @ 2.5 MHz	210	0.68	370
xx413RAB152XJLZ	1.5 @ 7.9 MHz	20 @ 2.5 MHz	190	0.76	370
xx413RAB182XJLZ	1.8 @ 7.9 MHz	20 @ 2.5 MHz	170	0.84	370
xx413RAB222XJLZ	2.2 @ 7.9 MHz	22 @ 2.5 MHz	150	1.10	310
xx413RAB272XJLZ	2.7 @ 7.9 MHz	20 @ 2.5 MHz	135	1.28	270
xx413RAB332XJLZ	3.3 @ 7.9 MHz	20 @ 2.5 MHz	120	1.46	260
xx413RAB392XJLZ	3.9 @ 7.9 MHz	22 @ 2.5 MHz	105	1.56	250
xx413RAB432XJLZ	4.3 @ 7.9 MHz	24 @ 2.5 MHz	85	1.70	230
xx413RAB472XJLZ	4.7 @ 7.9 MHz	24 @ 2.5 MHz	90	1.68	230
xx413RAB502XJLZ	5.0 @ 7.9 MHz	23 @ 2.5 MHz	30	2.20	200
xx413RAB562XJLZ	5.6 @ 7.9 MHz	23 @ 2.5 MHz	80	1.82	220
xx413RAB622XJLZ	6.2 @ 7.9 MHz	24 @ 2.5 MHz	75	2.50	195
xx413RAB682XJLZ	6.8 @ 7.9 MHz	24 @ 2.5 MHz	70	2.00	210
xx413RAB822XJLZ	8.2 @ 7.9 MHz	23 @ 2.5 MHz	65	2.65	190
xx413RAB912XJLZ	9.1 @ 7.9 MHz	25 @ 2.5 MHz	57	2.90	170
xx413RAB103XJLZ	10 @ 7.9 MHz	24 @ 2.5 MHz	60	2.95	165
xx413RAB123XJLZ	12 @ 2.5 MHz	28 @ 2.5 MHz	38	3.30	160
xx413RAB153XJLZ	15 @ 2.5 MHz	28 @ 2.5 MHz	30	3.70	150
xx413RAB183XJLZ	18 @ 2.5 MHz	28 @ 2.5 MHz	26	4.00	140
xx413RAB223XJLZ	22 @ 2.5 MHz	28 @ 2.5 MHz	22	6.14	115
xx413RAB273XJLZ	27 @ 2.5 MHz	28 @ 2.5 MHz	12	6.45	110
xx413RAB333XJLZ	33 @ 2.5 MHz	30 @ 2.5 MHz	19	7.00	110
xx413RAB393XJLZ	39 @ 2.5 MHz	29 @ 2.5 MHz	26	10.0	90
xx413RAB473XJLZ	47 @ 2.5 MHz	30 @ 2.5 MHz	12	10.7	80
xx413RAB563XJLZ	56 @ 2.5 MHz	20 @ 0.79 MHz	8.0	10.0	95
xx413RAB683XJLZ	68 @ 0.79 MHz	17 @ 0.79 MHz	5.7	13.5	85
xx413RAB104XJLZ	100 @ 0.79 MHz	18 @ 0.79 MHz	4.5	20.5	65

ST 413RAE (1008) Low Profile

Part number	Inductance (nH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	Imax (mA)
xx413RAE100JLZ	10 @ 50 MHz	5	50 @ 500 MHz	3000	0.08	1000
xx413RAE120JLZ	12 @ 50 MHz	5	50 @ 500 MHz	3000	0.09	1000
xx413RAE150JLZ	15 @ 50 MHz	5	50 @ 500 MHz	3000	0.14	1000
xx413RAE180JLZ	18 @ 50 MHz	5	50 @ 350 MHz	2500	0.11	1000
xx413RAE220JLZ	22 @ 50 MHz	5,2,1	55 @ 350 MHz	2000	0.12	1000
xx413RAE270_LZ	27 @ 50 MHz	5,2,1	55 @ 350 MHz	1500	0.13	1000
xx413RAE330_LZ	33 @ 50 MHz	5,2,1	60 @ 350 MHz	1500	0.14	1000
xx413RAE390_LZ	39 @ 50 MHz	5,2,1	60 @ 350 MHz	1500	0.15	1000
xx413RAE470_LZ	47 @ 50 MHz	5,2,1	65 @ 350 MHz	1350	0.16	1000
xx413RAE560_LZ	56 @ 50 MHz	5,2,1	65 @ 350 MHz	1150	0.18	1000
xx413RAE680_LZ	68 @ 50 MHz	5,2,1	65 @ 350 MHz	1050	0.20	1000
xx413RAE820_LZ	82 @ 50 MHz	5,2,1	60 @ 350 MHz	950	0.22	1000
xx413RAE101_LZ	100 @ 25 MHz	5,2,1	60 @ 350 MHz	950	0.56	650
xx413RAE121_LZ	120 @ 25 MHz	5,2,1	60 @ 350 MHz	900	0.63	650
xx413RAE151_LZ	150 @ 25 MHz	5,2,1	45 @ 100 MHz	850	0.70	580
xx413RAE181_LZ	180 @ 25 MHz	5,2,1	45 @ 100 MHz	700	0.77	620
xx413RAE221_LZ	220 @ 25 MHz	5,2,1	45 @ 100 MHz	600	0.84	500
xx413RAE271_LZ	270 @ 25 MHz	5,2,1	45 @ 100 MHz	550	0.91	500
xx413RAE331_LZ	330 @ 25 MHz	5,2,1	45 @ 100 MHz	500	1.05	450
xx413RAE391_LZ	390 @ 25 MHz	5,2,1	45 @ 100 MHz	465	1.12	470
xx413RAE471_LZ	470 @ 25 MHz	5,2,1	45 @ 100 MHz	425	1.19	470
xx413RAE561_LZ	560 @ 25 MHz	5,2,1	45 @ 100 MHz	415	1.33	400
xx413RAE621_LZ	620 @ 25 MHz	5,2,1	45 @ 100 MHz	375	1.40	300
xx413RAE681_LZ	680 @ 25 MHz	5,2,1	45 @ 100 MHz	340	1.47	400
xx413RAE751_LZ	750 @ 25 MHz	5,2,1	45 @ 100 MHz	330	1.54	360
xx413RAE821_LZ	820 @ 25 MHz	5,2,1	45 @ 100 MHz	325	1.61	400
xx413RAE911_LZ	910 @ 25 MHz	5,2,1	35 @ 50 MHz	305	1.68	380
xx413RAE102_LZ	1000 @ 25 MHz	5,2,1	35 @ 50 MHz	290	1.75	370

Which version of these parts should you use?

- AE** Passes NASA low outgassing specifications
Extended temperature applications: -55 up to 155°C Ambient
Leach resistant tin-lead, gold and other terminations available.
- MS** Extended temperature applications: -55 up to 155°C Ambient
Leach resistant tin-lead terminations
- ML** Extended temperature applications: -55 up to 155°C Ambient
- ST** Low temperature storage: -55°C
Extended qualification

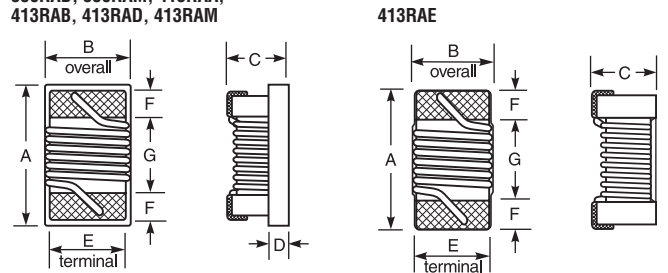
MS ML ST 413RAD (1008) High Q

Part number	Inductance (nH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	Imax (mA)
xx413RAD3N0_SZ	3.0 @ 50 MHz	5	57 @ 1000 MHz	>5000	0.038	1.8
xx413RAD4N1_SZ	4.1 @ 50 MHz	5	75 @ 1000 MHz	>5000	0.050	1.8
xx413RAD7N8_SZ	7.8 @ 50 MHz	5	51 @ 500 MHz	3800	0.050	1.6
xx413RAD10N_SZ	10 @ 50 MHz	5,2	60 @ 500 MHz	3200	0.060	1.5
xx413RAD12N_SZ	12 @ 50 MHz	5,2	57 @ 500 MHz	2400	0.060	1.5
xx413RAD18N_SZ	18 @ 50 MHz	5,2	62 @ 350 MHz	2100	0.070	1.4
xx413RAD22N_SZ	22 @ 50 MHz	5,2	62 @ 350 MHz	2050	0.070	1.4
xx413RAD33N_SZ	33 @ 50 MHz	5,2	49 @ 150 MHz	1700	0.090	1.2
xx413RAD36N_SZ	36 @ 50 MHz	5,2	57 @ 150 MHz	1400	0.090	1.1
xx413RAD39N_SZ	39 @ 50 MHz	5,2	45 @ 150 MHz	1300	0.090	1.1
xx413RAD47N_SZ	47 @ 50 MHz	5,2,1	45 @ 150 MHz	1450	0.120	0.95
xx413RAD56N_SZ	56 @ 50 MHz	5,2,1	43 @ 150 MHz	1080	0.120	0.95
xx413RAD68N_SZ	68 @ 50 MHz	5,2,1	54 @ 150 MHz	1150	0.130	0.85
xx413RAD82N_SZ	82 @ 50 MHz	5,2,1	54 @ 150 MHz	1060	0.160	0.80
xx413RADR10_SZ	100 @ 50 MHz	5,2,1	51 @ 150 MHz	820	0.160	0.80

MS ML ST 413RAM (1008) High Current

Part number	Inductance ±10% (µH)	Q typ	SRF min (MHz)	DCR max (Ohms)	Isat (A)	Imax (A)
xx413RAM901KSZ	0.9 @ 2.5 MHz	25 @ 2.5 MHz	415	0.120	1.4	0.76
xx413RAM112KSZ	1.1 @ 2.5 MHz	24 @ 2.5 MHz	376	0.130	1.3	0.72
xx413RAM132KSZ	1.3 @ 2.5 MHz	37 @ 2.5 MHz	198	0.145	1.2	0.64
xx413RAM152KSZ	1.5 @ 2.5 MHz	22 @ 2.5 MHz	135	0.155	1.1	0.62
xx413RAM192KSZ	1.9 @ 2.5 MHz	29 @ 2.5 MHz	126	0.180	1.0	0.60
xx413RAM222KSZ	2.2 @ 2.5 MHz	21 @ 2.5 MHz	106	0.186	0.95	0.58
xx413RAM272KSZ	2.7 @ 2.5 MHz	22 @ 2.5 MHz	70	0.210	0.80	0.57
xx413RAM332KSZ	3.3 @ 2.5 MHz	21 @ 2.5 MHz	59	0.240	0.75	0.53
xx413RAM392KSZ	3.9 @ 2.5 MHz	21 @ 2.5 MHz	55	0.260	0.70	0.50
xx413RAM472KSZ	4.7 @ 2.5 MHz	27 @ 2.5 MHz	48	0.450	0.70	0.36
xx413RAM582KSZ	5.8 @ 2.5 MHz	21 @ 2.5 MHz	37	0.320	0.55	0.45
xx413RAM682KSZ	6.8 @ 2.5 MHz	28 @ 2.5 MHz	33	0.330	0.50	0.42
xx413RAM822KSZ	8.2 @ 2.5 MHz	20 @ 2.5 MHz	34	0.380	0.50	0.42
xx413RAM103KSZ	10 @ 2.5 MHz	22 @ 2.5 MHz	26	0.540	0.45	0.36

319RAD, 336RAA, 336RAB, 336RAD, 336RAM, 413RAA, 413RAB, 413RAD, 413RAM



Dimensions

Series	A max	B max	C max	D ref	E	F	G
319RAD	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
336RAA	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
336RAB	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
336RAD	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
336RAM	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
413RAA	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
413RAB	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
413RAD	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
413RAE	0.105 2,67	0.095 2,41	0.080 2,03	0.020 0,51	0.080 2,03	0.020 0,51	0.060 1,52
413RAM	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

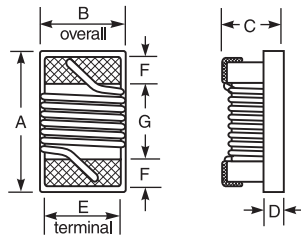
* When ordering, please replace underscore in part number with the proper tolerance code: F = 1%, G = 2%, J = 5%. Specify the version desired (e.g. AE336RAA101GSZ for an outgassing compliant part with a 2% tolerance).

† Part not available in AR version.

AE MS 376RAA (1206)

Part number	Inductance (nH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	Imax (mA)
xx376RAA030JSZ	3.3 @ 100 MHz	5	29 @ 300 MHz	>5000	0.050	900
xx376RAA060JSZ	6.8 @ 100 MHz	5	24 @ 300 MHz	4380	0.070	900
xx376RAA100JSZ	10 @ 100 MHz	5,2,1	31 @ 300 MHz	3440	0.080	900
xx376RAA120_SZ	12 @ 100 MHz	5,2,1	40 @ 300 MHz	2560	0.100	900
xx376RAA150_SZ	15 @ 100 MHz	5,2,1	38 @ 300 MHz	2520	0.100	900
xx376RAA180_SZ	18 @ 100 MHz	5,2,1	50 @ 300 MHz	2260	0.100	900
xx376RAA220_SZ	22 @ 100 MHz	5,2,1	50 @ 300 MHz	2120	0.100	900
xx376RAA270_SZ	27 @ 100 MHz	5,2,1	50 @ 300 MHz	1800	0.110	900
xx376RAA330_SZ	33 @ 100 MHz	5,2,1	55 @ 300 MHz	1800	0.110	900
xx376RAA390_SZ	39 @ 100 MHz	5,2,1	55 @ 300 MHz	1800	0.120	900
xx376RAA470_SZ	47 @ 100 MHz	5,2,1	55 @ 300 MHz	1500	0.130	900
xx376RAA560_SZ	56 @ 100 MHz	5,2,1	55 @ 300 MHz	1400	0.140	900
xx376RAA680_SZ	68 @ 100 MHz	5,2,1	48 @ 150 MHz	1180	0.260	600
xx376RAA820_SZ	82 @ 100 MHz	5,2,1	52 @ 150 MHz	1120	0.210	700
xx376RAA101_SZ	100 @ 100 MHz	5,2,1	55 @ 150 MHz	1040	0.260	650
xx376RAA121_SZ	120 @ 100 MHz	5,2,1	53 @ 150 MHz	1040	0.260	620
xx376RAA151_SZ	150 @ 100 MHz	5,2,1	53 @ 150 MHz	920	0.310	720
xx376RAA181_SZ	180 @ 50 MHz	5,2,1	53 @ 150 MHz	780	0.430	580
xx376RAA221_SZ	220 @ 50 MHz	5,2,1	51 @ 150 MHz	700	0.500	550
xx376RAA271_SZ	270 @ 50 MHz	5,2,1	53 @ 150 MHz	630	0.560	470
xx376RAA331_SZ	330 @ 50 MHz	5,2,1	30 @ 35 MHz	570	0.620	370
xx376RAA391_SZ	390 @ 50 MHz	5,2,1	31 @ 35 MHz	540	0.750	370
xx376RAA471_SZ	470 @ 50 MHz	5,2,1	31 @ 35 MHz	500	1.30	320
xx376RAA561_SZ	560 @ 35 MHz	5,2,1	31 @ 35 MHz	440	1.34	300
xx376RAA621_SZ	620 @ 35 MHz	5,2,1	32 @ 35 MHz	440	1.60	270
xx376RAA681_SZ	680 @ 35 MHz	5,2,1	32 @ 35 MHz	410	1.58	260
xx376RAA751_SZ	750 @ 35 MHz	5,2,1	32 @ 35 MHz	400	2.20	220
xx376RAA821_SZ	820 @ 35 MHz	5,2,1	31 @ 35 MHz	370	1.82	240
xx376RAA911_SZ	910 @ 35 MHz	5,2,1	31 @ 35 MHz	350	2.85	190
xx376RAA102_SZ	1000 @ 35 MHz	5,2,1	32 @ 35 MHz	360	2.80	190
xx376RAA122_SZ	1200 @ 35 MHz	5,2,1	32 @ 35 MHz	320	3.20	170

376RAA, 450RAA, 450RAB



Dimensions

Series	A max	B max	C max	D ref	E	F	G
376RAA	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
450RAA	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
450RAB	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

MS ML 450RAA (1812)

Part number	Inductance (µH)	Percent tolerance*	Q min	SRF min (MHz)	DCR max (Ohms)	Imax (mA)
xx450RAA102JLZ	1.0 @ 7.9 MHz	5	59 @ 50 MHz	260	1.1	390
xx450RAA122JLZ	1.2 @ 7.9 MHz	5	54 @ 50 MHz	230	1.2	360
xx450RAA152_LZ	1.5 @ 7.9 MHz	5,2	57 @ 50 MHz	210	1.6	320
xx450RAA182JLZ	1.8 @ 7.9 MHz	5	57 @ 50 MHz	190	2.0	270
xx450RAA222_LZ	2.2 @ 7.9 MHz	5,2	52 @ 50 MHz	170	2.2	250
xx450RAA272_LZ	2.7 @ 7.9 MHz	5,2	53 @ 50 MHz	160	3.2	200
xx450RAA332_LZ	3.3 @ 7.9 MHz	5,2	53 @ 50 MHz	145	3.8	200
xx450RAA392_LZ	3.9 @ 7.9 MHz	5,2	53 @ 50 MHz	130	5.0	175
xx450RAA472JLZ	4.7 @ 7.9 MHz	5	32 @ 10 MHz	115	5.4	165
xx450RAA562JLZ†	5.6 @ 7.9 MHz	5	32 @ 10 MHz	100	5.7	160
xx450RAA682JLZ†	6.8 @ 7.9 MHz	5	32 @ 10 MHz	90	6.6	155
xx450RAA822_LZ†	8.2 @ 7.9 MHz	5,2	32 @ 10 MHz	80	7.0	145
xx450RAA103JLZ†	10 @ 7.9 MHz	5	32 @ 10 MHz	70	7.7	125
xx450RAA123JLZ†	12 @ 2.5 MHz	5	26 @ 5 MHz	60	8.7	125
xx450RAA153_LZ†	15 @ 2.5 MHz	5,2	26 @ 5 MHz	50	9.6	120
xx450RAA183JLZ†	18 @ 2.5 MHz	5	28 @ 5 MHz	40	10.5	115
xx450RAA223_LZ†	22 @ 2.5 MHz	5,2	28 @ 5 MHz	40	11.5	110
xx450RAA273JLZ†	27 @ 2.5 MHz	5	28 @ 5 MHz	30	12.5	105
xx450RAA333_LZ†	33 @ 2.5 MHz	5,2	24 @ 2.5 MHz	20	13.5	105

* When ordering, please replace underscore in part number with the proper tolerance code: F = 1%, G = 2%, J = 5%. Specify the version desired (e.g. AE376RAA101GSZ for an outgassing compliant part with a 2% tolerance)

† Part available only in the ST version.

MS ML 450RAB (1812) High L

Part number	Inductance ±5% (µH)	Q min	SRF min (MHz)	DCR max (Ohms)	Imax (mA)
xx450RAB-123JSZ	12 @ 2.5 MHz	22 @ 0.79 MHz	55	2.0	280
xx450RAB-153JSZ	15 @ 2.5 MHz	22 @ 0.79 MHz	45	2.5	260
xx450RAB-183JSZ	18 @ 2.5 MHz	24 @ 0.79 MHz	37	2.8	240
xx450RAB-223JSZ	22 @ 2.5 MHz	20 @ 0.79 MHz	32	3.2	210
xx450RAB-273JSZ	27 @ 2.5 MHz	24 @ 0.79 MHz	27	3.6	200
xx450RAB-333JSZ	33 @ 2.5 MHz	22 @ 0.79 MHz	23	4.0	190
xx450RAB-393JSZ	39 @ 2.5 MHz	20 @ 0.79 MHz	19	4.5	185
xx450RAB-473JSZ	47 @ 2.5 MHz	24 @ 0.79 MHz	16	5.0	180
xx450RAB-563JSZ	56 @ 2.5 MHz	22 @ 0.79 MHz	13	5.5	170
xx450RAB-683JSZ	68 @ 2.5 MHz	24 @ 0.79 MHz	10	6.0	150
xx450RAB-823JSZ	82 @ 2.5 MHz	24 @ 0.79 MHz	9.0	7.0	135
xx450RAB-104JSZ	100 @ 2.5 MHz	24 @ 0.79 MHz	8.5	8.0	135
xx450RAB-124JSZ	120 @ 0.79 MHz	25 @ 0.79 MHz	8.5	11.5	110
xx450RAB-154JSZ	150 @ 0.79 MHz	23 @ 0.79 MHz	8.5	13.0	100
xx450RAB-184JSZ	180 @ 0.79 MHz	24 @ 0.79 MHz	8.0	14.2	85
xx450RAB-224JSZ	220 @ 0.79 MHz	23 @ 0.79 MHz	6.0	16.2	80
xx450RAB-274JSZ	270 @ 0.79 MHz	23 @ 0.79 MHz	5.0	20.5	75
xx450RAB-334JSZ	330 @ 0.79 MHz	24 @ 0.79 MHz	4.5	22.5	70
xx450RAB-394JSZ	390 @ 0.79 MHz	14 @ 0.25 MHz	3.5	24.5	65
xx450RAB-474JSZ	470 @ 0.79 MHz	15 @ 0.25 MHz	3.0	26.5	65
xx450RAB-564JSZ	560 @ 0.79 MHz	13 @ 0.25 MHz	2.0	28.5	65
xx450RAB-684JSZ	680 @ 0.79 MHz	13 @ 0.25 MHz	1.9	38.5	60
xx450RAB-824JSZ	820 @ 0.79 MHz	13 @ 0.25 MHz	1.6	41.0	50
xx450RAB-105JSZ	1000 @ 0.79 MHz	15 @ 0.25 MHz	1.5	44.0	50

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.

AT AE MS 350/394RAT

Part number	Turns	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	Imax (A)
xx350RAT1N7KSZ	2	1.65	10	100	800	10.0	4.0	1.6
xx350RAT2N6JSZ	3	2.55	5	100	800	8.2	5.0	1.6
xx350RAT3N9_SZ	4	3.85	5,2	100	800	7.5	6.0	1.6
xx350RAT5N4_SZ	5	5.40	5,2	100	800	7.0	8.0	1.6
xx394RAT5N6_SZ	6	5.60	5,2	100	800	6.5	9.0	1.6
xx394RAT7N2_SZ	7	7.15	5,2	100	800	6.0	10	1.6
xx394RAT8N8_SZ	8	8.80	5,2	100	800	6.0	12	1.6
xx394RAT9N9_SZ	9	9.85	5,2	100	800	5.2	13	1.6
xx394RAT13N_SZ	10	12.55	5,2	100	800	4.6	14	1.6

AT AE MS 439/470RAT

Part number	Turns	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhm)	Imax (A)
xx439RAT2N5KLZ	1	2.5	10	145	150	12.5	1.1	4.0
xx439RAT5N0_LZ	2	5.0	5,2	140	150	6.5	1.8	4.0
xx439RAT8N0_LZ	3	8.0	5,2	140	150	5.0	2.6	4.0
xx439RAT13N_LZ	4	12.5	5,2	137	150	3.3	3.4	4.0
xx439RAT19N_LZ	5	18.5	5,2	132	150	2.5	3.9	4.0
xx470RAT18N_LZ	6	17.5	5,2	100	150	2.2	4.5	4.0
xx470RAT22N_LZ	7	22	5,2	102	150	2.1	5.2	4.0
xx470RAT28N_LZ	8	28	5,2	105	150	1.8	6.0	4.0
xx470RAT36N_LZ	9	35.5	5,2	112	150	1.5	6.8	4.0
xx470RAT43N_LZ	10	43	5,2	106	150	1.2	7.9	4.0

AT AE MS ML ST 426/446RAT Low Profile

Part number	Turns	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	Imax (A)
xx426RAT5N5_SZ	3	5.5	5,2	115	250	5.0	2.6	4.0
xx426RAT9N0_SZ	4	9	5,2	120	250	4.0	3.4	4.0
xx426RAT13N_SZ	5	13	5,2	100	250	3.0	3.9	4.0
xx446RAT16N_SZ	7	16	5,2	110	250	3.0	5.2	4.0
xx446RAT18N_SZ	8	18	5,2	110	250	2.9	6.0	4.0
xx446RAT23N_SZ	9	23	5,2	110	250	2.6	6.8	4.0
xx446RAT27N_SZ	10	27	5,2	110	250	2.3	7.9	4.0

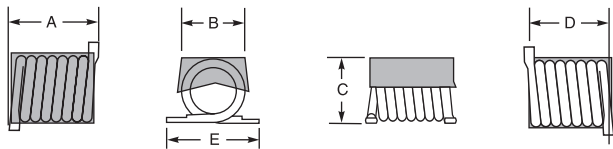
AT AE MS ML ST 475RAT

Part number	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	Imax (A)
xx475RAT22N_SZ	22	5,2	100	150	3.2	4.2	3.0
xx475RAT27N_SZ	27	5,2	100	150	2.7	4.0	3.5
xx475RAT33N_SZ	33	5,2	100	150	2.5	4.8	3.0
xx475RAT39N_SZ	39	5,2	100	150	1.8	4.4	3.0
xx475RAT47N_SZ	47	5,2	100	150	2.1	5.6	3.0
xx475RAT56N_SZ	56	5,2	100	150	1.5	6.2	3.0
xx475RAT68N_SZ	68	5,2	100	150	1.5	8.2	2.5
xx475RAT82N_SZ	82	5,2	100	150	1.3	9.4	2.5
xx475RATR10_SZ	100	5,2	100	150	1.2	12.3	1.7
xx475RATR12_SZ	120	5,2	100	150	1.1	17.3	1.5
xx475RATR15_SZ	150	5,2	100	150	0.75	33.0	1.2

AT AE MS ML ST 536RAT

Part number	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	Imax (A)
AT536RAT90N_SZ	90	5,2	95	50	1.140	15	3.5
AT536RATR11_SZ	111	5,2	87	50	1.020	15	3.5
AT536RATR13_SZ	130	5,2	87	50	0.900	20	3.0
AT536RATR17_SZ	169	5,2	95	50	0.875	25	3.0
AT536RATR21_SZ	206	5,2	95	50	0.800	30	3.0
AT536RATR22_SZ	222	5,2	92	50	0.730	35	3.0
AT536RATR25_SZ	246	5,2	95	50	0.685	35	3.0
AT536RATR31_SZ	307	5,2	95	50	0.660	35	3.0
AT536RATR38_SZ	380	5,2	95	50	0.590	50	2.5
AT536RATR42_SZ	422	5,2	95	50	0.540	60	2.5
AT536RATR49_SZ	491	5,2	95	50	0.535	65	2.0
AT536RATR54_SZ	538	5,2	87	50	0.490	90	2.0

350RAT, 394RAT, 426RAT, 439RAT, 446RAT, 470RAT, 475RAT, 536RAT



Dimensions

Series	A max	B	C max	D	E max
350RAT	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
394RAT	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
426RAT	0.155 3,94	0.135 3,43	0.079 2,01	0.115±0.010 2,92±0,25	0.165 4,19
439RAT	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
446RAT	0.270 6,86	0.135 3,43	0.079 2,01	0.230±0.015 5,84±0,25	0.165 4,19
470RAT	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
475RAT	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
536RAT	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

* When ordering, please replace underscore in part number with the proper tolerance code: G = 2%, J = 5%. Specify the version desired (e.g. AT446RAT27NGSZ for an ultra high-temperature part with a 2% tolerance).

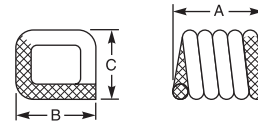
Which version of these parts should you use?

- AE** Passes NASA low outgassing specifications
Extended temperature applications: -55 up to 155°C Ambient
Leach resistant tin-lead, gold and other terminations available.
- MS** Extended temperature applications: -55 up to 155°C Ambient
Leach resistant tin-lead terminations
- ML** Extended temperature applications: -55 up to 155°C Ambient
- AT** Extended temperature applications: Down to -60°C, up to +300°C
- ST** Low temperature storage: -55°C
Extended qualification

AT ST 392RAS

Part number	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	Imax (A)
xx392RAS8N1_SZ	8.1	5,2	100	400	4.0	6.0	4.0
xx392RAS12N_SZ	12.1	5,2	100	400	3.4	7.0	4.0
xx392RAS17N_SZ	16.6	5,2	100	400	2.9	8.0	4.0
xx392RAS22N_SZ	21.5	5,2	100	400	2.6	9.0	4.0
xx392RAS27N_SZ	27.3	5,2	100	400	2.3	10.0	4.0

Each value is a different length. Check www.coilcraft-cps for details.

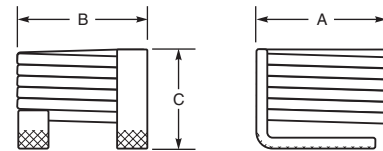


Dimensions

Series	A	B	C
392RAS	0.058 - 0.117 1,473 - 2,972	0.084 2,134	0.072 1,829

MS ML 561/615/643RAU

Part number	Inductance ±20% (nH)	Q typ	SRF min (GHz)	DCR max (mOhms)	Imax (A) 20° rise
xx561RAU23NMSZ	23.5	70 @ 100 MHz	923	1.20	26.0
xx561RAU46NMSZ	46.5	110 @ 100 MHz	526	1.62	25.5
xx561RAU79NMSZ	79	110 @ 50 MHz	386	2.11	25.0
xx561RAU111MSZ	111	120 @ 50 MHz	382	2.73	22.0
xx561RAU141MSZ	146	110 @ 50 MHz	433	3.33	19.3
xx615RAU22NMSZ	22	150 @ 100 MHz	918	0.55	57.0
xx615RAU42NMSZ	42	160 @ 50 MHz	557	0.77	52.0
xx615RAU66NMSZ	66	160 @ 50 MHz	480	0.99	48.0
xx615RAU90NMSZ	90	140 @ 50 MHz	444	1.21	45.0
xx615RAU111MSZ	117	140 @ 50 MHz	399	1.43	44.0
xx643RAU33NMSZ	33	180 @ 100 MHz	620	0.74	43.0
xx643RAU66NMSZ	66	150 @ 50 MHz	413	1.00	42.5
xx643RAU111MSZ	108	150 @ 50 MHz	320	1.34	42.0
xx643RAU151MSZ	155	150 @ 50 MHz	296	1.60	39.7
xx643RAU201MSZ	202	150 @ 50 MHz	262	1.82	35.8
xx643RAU251MSZ	257	150 @ 50 MHz	230	2.15	34.5



Dimensions

Series	A	B	C
561RAU	0.394 10,0	0.394 10,0	0.142 - 0.240 3,60 - 6,10
615RAU	0.472 12,0	0.453 11,5	0.260 - 0.445 6,60 - 11,3
643RAU	0.770 19,56	0.535 13,60	0.236 - 0.449 5,99 - 11,4

SM Wideband RF Transformers

These miniature surface mount wideband transformers for critical product applications are available in untapped and tapped configurations. They feature 300 V interwinding isolation, 1/4 Watt input RF power rating, and 250 mA current rating.

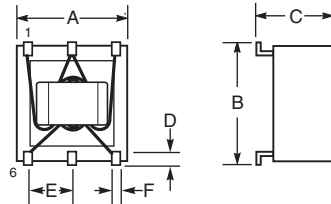
Typical applications include impedance or isolation transformers. They can also be used for balanced to unbalanced (balun) conversion.

AE MS ML 520RFA



Part number	Schematic	Imp ratio	Bandwidth (MHz)	Insertion loss (dB)	Pins 1-3		Pins 6-4	
					L min (μH)	DCR max (Ohms)	L min (μH)	DCR max (Ohms)
xx520RFA01A1SZ	A	1:1	0.045 - 365	0.25	60	130	60	130
xx520RFA01B1SZ	B	1:1	0.045 - 365	0.25	60	130	60	130
xx520RFA02B1SZ	B	1:2	0.045 - 495	0.25	60	130	140	180
xx520RFA03B1SZ	B	1:3	0.075 - 425	0.35	40	120	140	180
xx520RFA04B1SZ	B	1:4	0.120 - 440	0.60	25	90	100	160
xx520RFA08B1SZ	B	1:8	0.105 - 300	0.60	25	90	200	180
xx520RFA09B1SZ	B	1:9	0.075 - 200	0.30	40	120	500	250
xx520RFA16B1SZ	B	1:16	0.105 - 135	0.60	25	90	500	250

520RFA



Dimensions

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

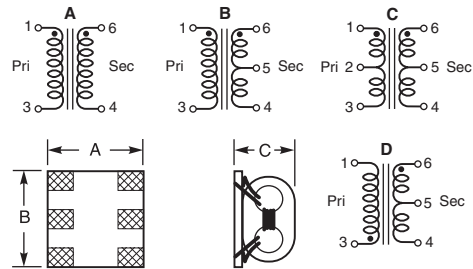
AR ST 458RFW



EPPL Level 2 Listed

Part number	Schematic	Imp ratio	Bandwidth (MHz)	Insertion loss (dB)	Pins 1-3		Pins 6-4		DC imb max (mA)
					L min (μH)	DCR max (Ohms)	L min (μH)	DCR max (Ohms)	
xx458RFW01A1SZ	A	1:1	0.400 - 600	0.40	10	120	10	120	—
xx458RFW01B1SZ	B	1:1	0.250 - 750	0.58	9.5	75	9.5	75	36
xx458RFW02B1SZ	B	1:2	0.200 - 500	0.50	10	120	20	150	8.5
xx458RFW03B1SZ	B	1:3	0.300 - 900	0.60	9	100	27	150	8.5
xx458RFW04B1SZ	B	1:4	0.250 - 750	1.0	9	55	36	120	30
xx458RFW04B2SZ	B	1:4	1.500 - 1200	2.0	2	50	8	100	15
xx458RFW04B3SZ	B	1:4	0.500 - 1000	0.90	5	80	20	120	10
xx458RFW04B4SZ	B	1:4	0.300 - 700	0.65	9	80	36	200	7.5
xx458RFW08B1SZ	B	1:8	0.150 - 600	0.60	22	120	176	310	17
xx458RFW09B1SZ	B	1:9	0.300 - 500	0.54	9	80	81	230	5.0
xx458RFW16B1SZ	B	1:16	0.600 - 300	0.80	5	80	80	230	5.0
xx458RFW04C1SZ	C	1:4	0.250 - 800	1.0	9	60	36	120	30

458RFW, CP-N0532



Dimensions

	A max	B max	C max
458RFW	0.175 4,45	0.165 4,19	0.120 3,05
CP-N0532	0.120 3,05	0.165 4,19	0.090 2,29

CP-N0532



Part number	Schematic	Imp ratio	Bandwidth (MHz)	Insertion loss (dB)	Pins 1-3		Pins 6-4	
					L min (μH)	DCR max (Ohms)	L min (μH)	DCR max (Ohms)
CP-N0532-02B1LZ	B	1:2	0.27 - 1400	0.70	10	110	20	150

SM Common Mode EMI/RFI Filters

These common mode filters are designed to reduce common mode noise in high-speed, differential signal mode transmission applications such as HDMI, USB, IEEE1394 and LVDS. Most provide greater than 15 dB common mode attenuation and greater than 100 Ohms impedance.

CP 312/336FRA Common Mode Chokes

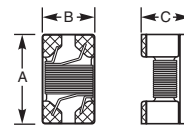
Part number	Common mode impedance typ (Ohms)			Common mode attenuation typ (dB)			Inductance min (nH)	DCR max (Ohms)	Isolation (Vrms)	Imax (mA)
	100 MHz	500 MHz	1 GHz	100 MHz	500 MHz	1 GHz				
xx312FRA251MAZ	25	44	64	1.31	3.16	8.45	18	0.077	250	500
xx312FRA601MAZ	60	99	142	3.00	6.88	13.27	37	0.109	250	500
xx312FRA951MAZ	95	156	234	4.62	9.75	16.06	63	0.142	250	500
xx312FRA142MAZ	145	242	353	6.85	12.80	18.16	98	0.174	250	500
xx312FRA222MAZ	225	384	592	9.14	16.53	20.29	150	0.209	250	500

Part number	Common mode impedance typ (Ohms)			Common mode attenuation typ (dB)			Inductance min (nH)	DCR max (Ohms)	Isolation (Vrms)	Imax (mA)
	10 MHz	100 MHz	500 MHz	10 MHz	100 MHz	500 MHz				
xx336FRA421MAZ	14	42	70	1.1	2.3	8.4	23	0.12	250	500
xx336FRA901MAZ	28	90	154	1.4	4.2	16.9	47	0.17	250	500
xx336FRA172MAZ	57	170	303	2.3	6.7	22.0	84	0.25	250	500
xx336FRA262MAZ	85	260	435	3.0	8.6	27.8	147	0.26	250	500
xx336FRA372MAZ	118	370	641	4.5	11.9	34.3	189	0.32	250	500
xx336FRA502MAZ	148	500	945	4.9	14.5	31.3	273	0.37	250	500
xx336FRA672MAZ	246	670	1231	8.4	16.6	30.0	322	0.45	250	500
xx336FRA902MAZ	294	900	1715	8.7	18.7	30.5	413	0.65	250	250

ST 515FRF Tip and Ring Filters

Part number	Inductance min (μH)	DCR max per winding (Ohms)	Rated current (mA)	Dielectric strength (Vrms)
xx515FRF3531LZ	35	0.075	500	1500
xx515FRF3532LZ	35	0.135	500	1500

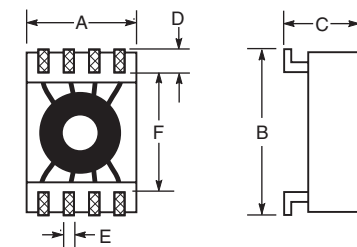
312FRA, 336FRA



Dimensions

Series	A max	B max	C max
312FRA	0.069 1,75	0.040 1,02	0.046 1,17
336FRA	0.090 2,29	0.068 1,73	0.065 1,65

515FRF



Dimensions

A	B	C	D	E	F
0.217 5,50	0.317 8,05	0.138 3,50	0.04 1,00	0.020 0,5	0.236 6,0

SM High-SRF Power Inductors

SPICE models
Available on our web site

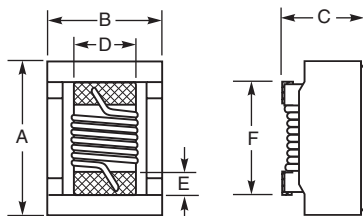
Coilcraft offers four sizes of high-frequency power inductors. These shielded power inductors are designed to operate at higher frequencies than our other power inductors, yet offer industry standard chip inductor footprints. They are offered in a wide range of inductances, all at 10% inductance tolerance, making them well suited for special applications like EMI noise filtering, DC-DC boost converters, automotive ECU/PCM control, LNA (low noise amplifier), and EMI noise reduction. They are designed for low temperature storage, -55°C, and can be purchased with extended qualification.

CP 312PHA Shielded

Part number	Inductance ±10% (µH)	Q min	DCR max (Ohms)	SRF (MHz)		Isat (A) 10% drop	Irms (A) 40°C Crise
				typ	min		
xx312PHA781KLZ	0.78	15@1 MHz	0.24	475	404	0.55	1.30
xx312PHA102KLZ	1.0	15@1 MHz	0.26	390	332	0.40	1.00
xx312PHA182KLZ	1.8	15@1 MHz	0.54	155	132	0.39	0.70
xx312PHA222KLZ	2.2	15@1 MHz	0.75	245	208	0.33	0.60
xx312PHA272KLZ	2.7	15@1 MHz	0.75	127	108	0.33	0.55
xx312PHA332KLZ	3.3	15@1 MHz	0.88	72	61.2	0.32	0.50
xx312PHA392KLZ	3.9	15@1 MHz	1.00	72	61.2	0.27	0.48
xx312PHA472KLZ	4.7	15@1 MHz	1.08	64	54.4	0.26	0.47
xx312PHA562KLZ	5.6	15@1 MHz	1.23	51	43.4	0.25	0.41
xx312PHA682KLZ	6.8	15@1 MHz	1.37	39	33.2	0.23	0.40
xx312PHA822KLZ	8.2	20@1 MHz	1.43	30	25.5	0.22	0.39
xx312PHA103KLZ	10	20@1 MHz	1.60	30	25.5	0.21	0.38
xx312PHA153KLZ	15	20@1 MHz	1.92	22	18.7	0.16	0.35
xx312PHA223KLZ	22	20@1 MHz	2.96	16	13.6	0.13	0.27
xx312PHA333KLZ	33	20@1 MHz	5.63	12	10.2	0.10	0.20
xx312PHA473KLZ	47	20@1 MHz	5.69	12	10.2	0.10	0.18

ST 413PHA Shielded

Part number	Inductance ±10% (µH)	Q min	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 30% drop	Irms (A) 40°C Crise
xx413PHA152KLZ	1.5	35@1 MHz	0.06	276	3.5	2.0
xx413PHA182KLZ	1.8	35@1 MHz	0.09	253	3.0	1.4
xx413PHA222KLZ	2.2	36@1 MHz	0.10	228	3.1	1.7
xx413PHA272KLZ	2.7	38@1 MHz	0.14	207	2.3	1.4
xx413PHA332KLZ	3.3	26@1 MHz	0.84	199	1.6	0.67
xx413PHA392KLZ	3.9	38@1 MHz	0.26	185	2.0	1.1
xx413PHA472KLZ	4.7	38@1 MHz	0.35	160	1.7	0.95
xx413PHA562KLZ	5.6	38@1 MHz	0.36	150	1.8	0.87
xx413PHA682KLZ	6.8	38@1 MHz	0.58	120	1.6	0.76
xx413PHA103KLZ	10	38@1 MHz	0.92	105	1.1	0.59
xx413PHA153KLZ	15	38@1 MHz	1.15	35	0.90	0.51
xx413PHA223KLZ	22	40@1 MHz	1.40	26	0.79	0.44
xx413PHA333KLZ	33	45@1 MHz	1.61	20	0.68	0.42
xx413PHA393KLZ	39	45@1 MHz	1.85	16	0.60	0.39
xx413PHA473KLZ	47	45@1 MHz	2.5	19	0.54	0.31
xx413PHA683KLZ	68	45@1 MHz	3.8	12	0.45	0.26
xx413PHA823KLZ	82	45@1 MHz	4.3	9.0	0.42	0.26
xx413PHA104KLZ	100	45@1 MHz	5.8	7.0	0.39	0.20
xx413PHA124KLZ	120	50@1 MHz	6.3	7.0	0.35	0.20
xx413PHA154KLZ	150	50@1 MHz	7.5	5.8	0.33	0.18
xx413PHA224KLZ	220	55@1 MHz	10.0	5.0	0.27	0.17
xx413PHA334KLZ	330	55@1 MHz	11.5	3.8	0.23	0.15
xx413PHA474KLZ	470	55@1 MHz	16.3	3.1	0.19	0.13
xx413PHA564KLZ	560	55@1 MHz	18.1	2.8	0.17	0.12
xx413PHA684KLZ	680	55@1 MHz	24.0	2.5	0.17	0.11
xx413PHA824KLZ	820	45@1 MHz	26.0	1.5	0.13	0.10
xx413PHA105KLZ	1000	45@1 MHz	29.0	2.0	0.14	0.10



Dimensions

Series	A max	B max	C max	D	E	F
312PHA	0.102 2,59	0.080 2,08	0.071 1,80	0.030 0,76	0.013 0,33	0.060 1,52
336PHA	0.133 3,38	0.118 3,00	0.079 2,00	0.050 1,27	0.020 0,51	0.080 2,03
413PHA	0.150 3,81	0.149 3,78	0.108 2,74	0.084 2,13	0.020 0,51	0.102 2,59
450PHA	0.231 5,87	0.196 4,98	0.150 3,81	0.100 2,54	0.025 0,64	0.178 4,52

Which version of these parts should you use?

AR	Passes NASA low outgassing specifications Extended temperature applications: -65 up to 155°C Ambient Leach resistant tin-lead, gold and other terminations available.
AE	Passes NASA low outgassing specifications Extended temperature applications: -55 up to 155°C Ambient Leach resistant tin-lead, gold and other terminations available.
MS	Extended temperature applications: -55 up to 155°C Ambient Leach resistant tin-lead terminations
ML	Extended temperature applications: -55 up to 155°C Ambient
AT	Extended temperature applications: Down to -60°C, up to +300°C
ST	Low temperature storage: -55°C
CP	Extended qualification

NOTE: AR is an improved version of the AE. Existing customers using the AE will continue to be supported indefinitely.

ST 336PHA Shielded

Part number	Inductance ±10% (µH)	Q min	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A) 40°C Crise
xx336PHA102KLZ	1.0	21@1 MHz	0.14	340	0.90	1.6
xx336PHA152KLZ	1.5	21@1 MHz	0.18	265	0.85	1.3
xx336PHA272KLZ	2.7	21@1 MHz	0.35	190	0.60	0.88
xx336PHA332KLZ	3.3	21@1 MHz	0.50	180	0.55	0.70
xx336PHA392KLZ	3.9	21@1 MHz	0.74	165	0.50	0.61
xx336PHA472KLZ	4.7	21@1 MHz	0.85	155	0.43	0.59
xx336PHA562KLZ	5.6	21@1 MHz	0.91	143	0.38	0.57
xx336PHA682KLZ	6.8	21@1 MHz	1.37	118	0.32	0.46
xx336PHA103KLZ	10	21@1 MHz	1.51	66	0.27	0.43
xx336PHA153KLZ	15	21@1 MHz	2.04	34	0.22	0.34
xx336PHA223KLZ	22	25@1 MHz	2.48	22	0.18	0.33
xx336PHA333KLZ	33	25@1 MHz	3.00	17	0.16	0.28
xx336PHA473KLZ	47	25@1 MHz	3.85	15	0.15	0.26
xx336PHA683KLZ	68	28@1 MHz	4.42	12	0.12	0.24
xx336PHA823KLZ	82	30@1 MHz	6.00	12	0.11	0.21
xx336PHA104KLZ	100	32@1 MHz	6.96	9.0	0.10	0.19
xx336PHA124KLZ	120	32@1 MHz	7.51	7.7	0.10	0.18
xx336PHA154KLZ	150	32@1 MHz	8.33	5.0	0.08	0.18
xx336PHA224KLZ	220	32@1 MHz	13.71	5.0	0.07	0.14
xx336PHA334KLZ	330	32@1 MHz	20.53	3.5	0.06	0.11

ST 450PHA Shielded

Part number	Inductance ±10% (µH)	Q min	DCR max (Ohms)	SRF typ (MHz)	Isat (A) 10% drop	Irms (A) 40°C Crise
xx450PHA102KLZ	1.0	35@1 MHz	0.05	685	2.50	2.70
xx450PHA122KLZ	1.2	38@1 MHz	0.06	460	2.00	2.60
xx450PHA152KLZ	1.5	38@1 MHz	0.06	460	2.00	2.60
xx450PHA222KLZ	2.2	38@1 MHz	0.07	270	1.70	2.40
xx450PHA272KLZ	2.7	40@1 MHz	0.08	265	1.40	2.30
xx450PHA332KLZ	3.3	40@1 MHz	0.09	225	1.40	2.30
xx450PHA392KLZ	3.9	40@1 MHz	0.11	170	1.20	2.20
xx450PHA472KLZ	4.7	40@1 MHz	0.11	165	1.15	2.10
xx450PHA562KLZ	5.6	40@1 MHz	0.12	155	1.10	2.10
xx450PHA682KLZ	6.8	40@1 MHz	0.13	140	1.00	1.90
xx450PHA103KLZ	10	40@1 MHz	0.17	120	0.90	1.70
xx450PHA153KLZ	15	40@1 MHz	0.26	100	0.70	1.45
xx450PHA223KLZ	22	40@1 MHz	0.33	45	0.54	1.20
xx450PHA333KLZ	33	40@1 MHz	0.40	30	0.46	1.10
xx450PHA393KLZ	39	48@1 MHz	0.56	30	0.40	1.00
xx450PHA473KLZ	47	50@1 MHz	0.87	28	0.35	0.80
xx450PHA683KLZ	68	50@1 MHz	1.08	17	0.32	0.67
xx450PHA823KLZ	82	55@1 MHz	1.25	17	0.28	0.65
xx450PHA104KLZ	100	60@1 MHz	1.32	14	0.27	0.65
xx450PHA124KLZ	120	60@1 MHz	1.45	12	0.23	0.60
xx450PHA154KLZ	150	60@1 MHz	2.20	11	0.20	0.51
xx450PHA224KLZ	220	60@1 MHz	2.65	7	0.17	0.47
xx450PHA334KLZ	330	60@1 MHz	4.85	5.5	0.15	0.31
xx450PHA474KLZ	470	50@1 MHz	5.85	4.0	0.12	0.31
xx450PHA564KLZ	560	40@1 MHz	6.10	2.6	0.11	0.28
xx450PHA684KLZ	680	40@1 MHz	6.60	2.3	0.10	0.28
xx450PHA824KLZ	820	30@1 MHz	7.35	1.8	0.09	0.25
xx450PHA105KLZ	1000	28@1 MHz	10.00	1.8	0.08	0.22

SM Power Inductors

SPICE models
Available on our web site

Coilcraft offers a wide variety of surface mount inductors for DC-DC conversion and other power applications. All the series with the exception of the 563PKA offer magnetic shielding. All PJB and many PYA and PZA inductors pass vibration testing to 80 G and shock testing to 1000 G. The PWA, PYA and PZA are high-current inductors. The PTA series inductors feature flat wire construction to provide low DCR and high current capability. PND series are coupled inductors, perfect for SEPIC applications.

MS ML 319PZA Shielded

Part number	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx319PZA151MEC	0.15	0.085	0.098	472	590	1.90	1.25	1.60
xx319PZA221MEC	0.22	0.111	0.128	384	480	1.50	1.13	1.48
xx319PZA331MEC	0.33	0.144	0.166	304	380	1.30	1.00	1.30
xx319PZA471MEC	0.47	0.177	0.204	220	275	1.20	0.95	1.25
xx319PZA681MEC	0.68	0.215	0.247	176	220	0.95	0.80	1.05

MS ML 322PZA Shielded

Part number	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx322PZA102MSZ	1.0	0.153	0.169	136	170	1.2	0.910	1.22
xx322PZA222MSZ	2.2	0.278	0.306	88	110	0.78	0.710	0.950
xx322PZA332MSZ	3.3	0.460	0.506	70	88	0.66	0.550	0.720
xx322PZA472MSZ	4.7	0.665	0.732	54	68	0.52	0.500	0.660
xx322PZA562MSZ	5.6	0.75	0.825	49	61	0.50	0.460	0.600
xx322PZA682MSZ	6.8	0.92	1.02	45	57	0.41	0.400	0.520
xx322PZA822MSZ	8.2	1.08	1.19	41	51	0.39	0.370	0.490
xx322PZA103MSZ	10	1.27	1.40	36	45	0.37	0.345	0.440
xx322PZA153MSZ	15	2.02	2.22	29.6	37	0.29	0.265	0.350
xx322PZA223MSZ	22	2.78	3.06	24.4	30.5	0.240	0.235	0.305
xx322PZA333MSZ	33	4.45	4.90	19.2	24.0	0.180	0.160	0.205
xx322PZA473MSZ	47	5.60	6.16	15.6	19.5	0.155	0.155	0.205
xx322PZA563MSZ	56	6.65	7.32	13.2	16.5	0.145	0.145	0.195
xx322PZA683MSZ	68	8.50	9.35	12.8	16.0	0.135	0.115	0.155
xx322PZA823MSZ	82	9.25	10.18	10.8	13.5	0.115	0.125	0.165
xx322PZA104MSZ	100	11.10	12.25	10.4	13.0	0.115	0.100	0.135

MS ML 338PWA Shielded

Part number	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx338PWA201MSZ	0.20	0.024	0.027	286	408	3.75	2.2	2.8
xx338PWA331MSZ	0.33	0.031	0.035	216	309	3.05	1.9	2.6
xx338PWA501MSZ	0.50	0.040	0.045	153	218	2.64	1.7	2.3
xx338PWA681MSZ	0.68	0.057	0.063	106	152	2.19	1.5	2.1
xx338PWA821MSZ	0.82	0.068	0.075	93	132	1.90	1.3	1.7
xx338PWA102MSZ	1.0	0.081	0.089	82	117	1.80	1.1	1.6
xx338PWA152MSZ	1.5	0.105	0.116	56	80	1.50	1.0	1.4
xx338PWA222MSZ	2.2	0.156	0.173	53	75	1.35	0.96	1.3
xx338PWA332MSZ	3.3	0.207	0.228	39	55	1.05	0.79	1.1
xx338PWA472MSZ	4.7	0.336	0.370	28	40	0.845	0.74	1.0
xx338PWA682MSZ	6.8	0.421	0.463	23	33	0.725	0.64	0.87
xx338PWA822MSZ	8.2	0.457	0.503	21	30	0.670	0.55	0.75
xx338PWA103MSZ	10	0.555	0.611	20	28	0.610	0.49	0.66

ST 358PWA Shielded

Part number	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx358PWA271MLZ	0.27	0.030	0.036	456	570	2.80	2.04	2.73
xx358PWA421MLZ	0.42	0.037	0.044	350	438	2.40	1.93	2.57
xx358PWA601MLZ	0.60	0.043	0.052	232	290	2.25	1.83	2.43
xx358PWA821MLZ	0.82	0.051	0.061	130	163	1.75	1.49	2.03
xx358PWA102MLZ	1.0	0.059	0.071	122	153	1.68	1.43	1.94
xx358PWA152MLZ	1.5	0.075	0.086	87	109	1.60	1.34	1.86
xx358PWA222MLZ	2.2	0.120	0.132	64	80	1.30	1.07	1.42
xx358PWA332MLZ	3.3	0.152	0.167	49	62	1.10	0.923	1.23
xx358PWA472MLZ	4.7	0.231	0.254	36	46	0.88	0.788	1.06
xx358PWA682MLZ	6.8	0.287	0.316	35	44	0.80	0.676	0.915
xx358PWA822MLZ	8.2	0.378	0.416	31	39	0.68	0.640	0.849
xx358PWA103MLZ	10	0.440	0.459	26	33	0.60	0.564	0.729

MS ML 390PZA Shielded

Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx390PZA601MSZ	0.60	30	33	144	180	2.7	1.8	2.5
xx390PZA102MSZ	1.0	43	49	102	128	2.4	1.6	2.3
xx390PZA152MSZ	1.5	71	80	77	97	1.9	1.4	1.9
xx390PZA222MSZ	2.2	111	122	62	78	1.5	1.0	1.3
xx390PZA332MSZ	3.3	154	166	51	64	1.3	0.88	1.2
xx390PZA472MSZ	4.7	217	230	45	57	1.1	0.84	1.1

MS ML 410PZA Shielded

Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx410PZA221MSZ	0.22	14	19	272	340	4.1	2.6	3.5
xx410PZA331MSZ	0.33	23	27	234	293	3.4	2.6	3.5
xx410PZA361MSZ	0.36	19	23	168	210	3.5	2.2	3.0
xx410PZA561MSZ	0.56	28	32	162	203	2.9	2.2	3.0
xx410PZA601MSZ	0.61	23	29	134	167	3.0	2.1	2.8
xx410PZA681MSZ	0.69	34	40	131	164	2.7	2.1	2.8
xx410PZA102MSZ	1.0	39	46	92	115	2.3	1.9	2.6
xx410PZA152MSZ	1.5	60	72	75.5	94.4	2.2	1.6	2.2
xx410PZA222MSZ	2.2	81	97	58.6	73.2	1.6	1.4	1.9
xx410PZA332MSZ	3.3	106	127	49.3	61.6	1.4	1.2	1.6
xx410PZA472MSZ	4.7	143	171	42.1	52.6	1.2	1.0	1.4
xx410PZA682MSZ	6.8	166	200	31.9	39.9	1.0	0.94	1.3
xx410PZA103MSZ	10	255	306	27.7	34.6	0.74	0.90	1.2
xx410PZA153MSZ	15	394	483	20.6	25.8	0.65	0.74	1.0
xx410PZA223MSZ	22	608	630	17.8	22.2	0.52	0.58	0.80
xx410PZA333MSZ	33	855	896	13.3	16.6	0.38	0.42	0.57
xx410PZA393MSZ	39	919	985	12.7	15.9	0.37	0.39	0.54
xx410PZA473MSZ	47	1220	1320	11.0	13.7	0.32	0.33	0.46
xx410PZA563MSZ	56	1430	1520	9.68	12.1	0.30	0.37	0.51
xx410PZA683MSZ	68	2160	2370	8.72	10.9	0.25	0.31	0.42
xx410PZA823MSZ	82	2300	2440	8.64	10.8	0.24	0.26	0.34
xx410PZA104MSZ	100	2630	3000	7.52	9.40	0.28	0.29	0.39
xx410PZA224MSZ	220	6830	8000	4.88	6.10	0.20	0.17	0.23

AE MS ML 433PZA Shielded

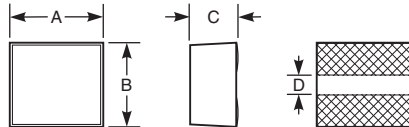
Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx433PZA102MSZ	1.0	10.80	11.90	51	64	5.4	6.0	8.3
xx433PZA152MSZ	1.5	14.40	15.80	47	59	4.6	5.0	6.8
xx433PZA222MSZ	2.2	21.35	23.50	30	38	3.7	4.5	6.0
xx433PZA332MSZ	3.3	34.80	38.30	26	33	2.9	2.9	3.9
xx433PZA472MSZ	4.7	52.20	57.40	21	26	2.7	2.7	3.6

MS ML 433PYA Shielded

Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx433PYA221MSZ	0.22	5.81	6.40	153	191	18.7	12.0	16.8
xx433PYA401MSZ	0.40	7.55	8.30	116	145	12.5	10.0	14.0
xx433PYA601MSZ	0.60	9.50	10.45	85	106	10.4	7.9	11.7
xx433PYA102MSZ	1.0	13.25	14.60	63	79	8.7	6.7	9.6
xx433PYA152MSZ	1.5	21.45	23.60	51	64	7.1	5.2	7.5
xx433PYA222MSZ	2.2	35.20	38.70	42	52	5.6	4.0	5.5

AE MS ML 465PYA Shielded

Partnumber	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx465PYA521MSZ	0.52	4.83	5.31	104	130	13.1	10.0	12.0
xx465PYA681MSZ	0.68	5.74	6.31	80	100	11.6	9.2	11.3
xx465PYA821MSZ	0.82	6.65	7.32	76	95	11.0	8.1	10.2
xx465PYA102MSZ	1.0	7.54	8.29	62	78	10.3	7.8	10.2
xx465PYA152MSZ	1.5	10.3	11.3	55	69	9.4	6.1	8.5
xx465PYA222MSZ	2.2	15.2	16.7	43	54	7.4	4.9	6.8
xx465PYA332MSZ	3.3	26.5	29.2	32	41	5.4	3.7	5.1
xx465PYA472MSZ	4.7	33.7	37.1	26	33	4.9	3.0	4.3
xx465PYA682MSZ	6.8	44.9	49.4	24	30	4.8	2.7	3.5
xx465PYA822MSZ	8.2	60.8	66.9	21	27	4.0	2.3	3.0
xx465PYA103MSZ	10	84.0	92.4	19	24	3.0	2.0	2.7
xx465PYA153MSZ	15	109	120	16	20	2.8	1.7	2.3



Dimensions

Series	A max	B max	C max	D
319PZA	0.087 2,2	0.083 2,1	0.020 0,50	0.014 0,35
322PZA	0.087 2,2	0.083 2,1	0.024 0,60	0.014 0,35
338PWA	0.087 2,2	0.083 2,1	0.039 1,00	0.014 0,35
358PWA	0.087 2,2	0.087 2,2	0.057 1,45	0.016 0,4
390PZA	0.126 3,2	0.126 3,2	0.043 1,10	0.043 1,1
410PZA	0.126 3,2	0.126 3,2	0.051 1,30	0.043 1,1
433PYA	0.169 4,3	0.169 4,3	0.083 2,10	0.062 1,57
433PZA	0.169 4,3	0.169 4,3	0.083 2,10	0.063 1,6
465PYA	0.169 4,3	0.169 4,3	0.161 4,10	0.062 1,57

AE MS ML 369PJB Shielded

Partnumber	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx369PJB561MSZ	0.56	0.065	0.072	231	330	2.1	1.1	1.6
xx369PJB801MSZ	0.80	0.083	0.092	178	255	1.8	0.88	1.3
xx369PJB102MSZ	1.0	0.113	0.125	154	220	1.5	0.72	1.0
xx369PJB152MSZ	1.5	0.121	0.134	119	170	1.3	0.70	0.96
xx369PJB222MSZ	2.2	0.158	0.175	105	150	1.1	0.68	0.88
xx369PJB332MSZ	3.3	0.257	0.285	79.8	114	0.88	0.59	0.76
xx369PJB472MSZ	4.7	0.315	0.350	60.9	87	0.74	0.54	0.64
xx369PJB562MSZ	5.6	0.405	0.450	54.6	78	0.70	0.46	0.58
xx369PJB682MSZ	6.8	0.450	0.500	52.5	75	0.63	0.40	0.54
xx369PJB822MSZ	8.2	0.540	0.600	42.7	61	0.58	0.36	0.48
xx369PJB103MSZ	10	0.585	0.650	39.2	56	0.52	0.34	0.45
xx369PJB123MSZ	12	0.711	0.790	34.3	49	0.50	0.30	0.40
xx369PJB183MSZ	18	1.13	1.25	26.6	38	0.40	0.26	0.35
xx369PJB223MSZ	22	1.35	1.50	24.5	35	0.34	0.23	0.30
xx369PJB333MSZ	33	2.07	2.30	16.1	23	0.31	0.20	0.26
xx369PJB473MSZ	47	2.70	3.00	14.7	21	0.24	0.17	0.22
xx369PJB683MSZ	68	4.28	4.75	12.6	18	0.20	0.14	0.18
xx369PJB104MSZ	100	6.17	6.85	9.8	14	0.16	0.13	0.17
xx369PJB124MSZ	120	6.30	7.00	9.1	13	0.10	0.11	0.15
xx369PJB154MSZ	150	7.20	8.00	7.7	11	0.092	0.10	0.14
xx369PJB184MSZ	180	8.10	9.00	7.0	10	0.082	0.10	0.13
xx369PJB224MSZ	220	10.3	11.5	6.3	9	0.076	0.080	0.12
xx369PJB334MSZ	330	16.2	18.0	4.9	7	0.066	0.070	0.10

Which version of these parts should you use?

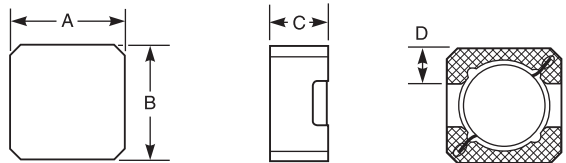
- AE** Passes NASA low outgassing specifications
Extended temperature applications: -55 up to 155°C Ambient
Leach resistant tin-lead, gold and other terminations available.
- MS** Extended temperature applications: -55 up to 155°C Ambient
Leach resistant tin-lead terminations
- ML** Extended temperature applications: -55 up to 155°C Ambient
- ST** Low temperature storage: -55°C
Extended qualification

AE MS ML 412PJB Shielded

Partnumber	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx412PJB102MSZ	1.0	0.0675	0.075	133	190	2.1	1.1	1.6
xx412PJB152MSZ	1.5	0.09	0.100	98.0	140	2.2	1.0	1.4
xx412PJB182MSZ	1.8	0.09	0.100	94.5	135	2.1	0.88	1.1
xx412PJB222MSZ	2.2	0.099	0.110	77.0	110	2.1	0.88	1.1
xx412PJB332MSZ	3.3	0.117	0.130	63.0	90	1.5	0.80	1.1
xx412PJB472MSZ	4.7	0.18	0.200	55.3	79	1.2	0.72	1.0
xx412PJB682MSZ	6.8	0.27	0.300	40.6	58	0.89	0.54	0.72
xx412PJB103MSZ	10	0.396	0.440	33.6	48	0.73	0.44	0.60
xx412PJB153MSZ	15	0.63	0.700	24.5	35	0.62	0.35	0.47
xx412PJB183MSZ	18	0.675	0.750	23.1	33	0.59	0.34	0.46
xx412PJB223MSZ	22	0.7425	0.825	21.0	30	0.50	0.34	0.46
xx412PJB333MSZ	33	1.17	1.30	16.1	23	0.42	0.28	0.38
xx412PJB473MSZ	47	1.395	1.55	11.9	17	0.39	0.24	0.32
xx412PJB683MSZ	68	2.025	2.25	9.80	14	0.32	0.20	0.26
xx412PJB104MSZ	100	3.06	3.40	7.70	11	0.26	0.15	0.21
xx412PJB124MSZ	120	4.14	4.60	6.30	9.0	0.23	0.14	0.18
xx412PJB154MSZ	150	5.49	6.10	5.60	8.0	0.20	0.12	0.16
xx412PJB184MSZ	180	7.74	8.60	5.25	7.5	0.17	0.10	0.14
xx412PJB224MSZ	220	8.55	9.50	4.20	6.0	0.16	0.090	0.12
xx412PJB334MSZ	330	20.7	23.0	3.50	5.0	0.11	0.060	0.080

MS ML 378PJB Shielded

Partnumber	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx378PJB471MSZ	0.47	0.063	0.070	259	370	2.4	1.4	1.8
xx378PJB681MSZ	0.68	0.072	0.080	189	270	1.9	1.2	1.6
xx378PJB102MSZ	1.0	0.0765	0.085	161	230	1.7	1.0	1.4
xx378PJB152MSZ	1.5	0.108	0.120	115	165	1.4	0.96	1.3
xx378PJB182MSZ	1.8	0.135	0.150	105	150	1.3	0.80	1.1
xx378PJB222MSZ	2.2	0.198	0.220	91.0	130	1.4	0.72	0.88
xx378PJB332MSZ	3.3	0.198	0.220	77.0	110	0.90	0.68	0.88
xx378PJB472MSZ	4.7	0.27	0.300	64.4	92	0.77	0.56	0.76
xx378PJB562MSZ	5.6	0.36	0.400	56.0	80	0.71	0.48	0.62
xx378PJB682MSZ	6.8	0.405	0.450	49.0	70	0.64	0.45	0.59
xx378PJB822MSZ	8.2	0.45	0.500	43.4	62	0.60	0.42	0.57
xx378PJB103MSZ	10	0.486	0.540	40.6	58	0.55	0.38	0.51
xx378PJB123MSZ	12	0.63	0.700	32.9	47	0.50	0.35	0.46
xx378PJB153MSZ	15	0.855	0.950	30.1	43	0.44	0.30	0.42
xx378PJB183MSZ	18	0.9	1.00	27.0	40	0.41	0.26	0.38
xx378PJB223MSZ	22	1.08	1.20	25.2	36	0.36	0.24	0.33
xx378PJB333MSZ	33	1.8	2.00	18.9	27	0.28	0.21	0.28
xx378PJB473MSZ	47	2.88	3.20	14.7	21	0.25	0.18	0.25
xx378PJB683MSZ	68	3.15	3.50	14.7	21	0.22	0.16	0.22
xx378PJB104MSZ	100	4.725	5.25	9.8	14	0.17	0.14	0.19
xx378PJB124MSZ	120	5.49	6.10	8.4	12	0.15	0.12	0.16
xx378PJB154MSZ	150	8.235	9.15	7.7	11	0.14	0.10	0.14
xx378PJB184MSZ	180	9.09	10.1	6.3	9	0.13	0.090	0.12
xx378PJB224MSZ	220	11.25	12.5	5.6	8	0.12	0.080	0.10
xx378PJB334MSZ	330	16.65	18.5	4.9	7	0.115	0.070	0.090



Dimensions

Series	A max	B max	C max	D
369PJB	0.122 3,10	0.122 3,10	0.0315 0,80	0.035 0,89
378PJB	0.122 3,10	0.122 3,10	0.0394 1,00	0.035 0,89
412PJB	0.122 3,10	0.122 3,10	0.0591 1,50	0.035 0,89

MS ML 414PJB Shielded

Part number	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx414PJB102MSZ	1.0	0.0495	0.055	150	215	1.9	1.3	1.7
xx414PJB222MSZ	2.2	0.090	0.100	98	140	1.5	0.96	1.3
xx414PJB332MSZ	3.3	0.130	0.145	80	115	1.3	0.80	1.1
xx414PJB472MSZ	4.7	0.157	0.175	60	86	1.0	0.72	1.0
xx414PJB562MSZ	5.6	0.198	0.220	51	74	0.98	0.66	0.88
xx414PJB682MSZ	6.8	0.216	0.240	50	72	0.86	0.66	0.88
xx414PJB822MSZ	8.2	0.243	0.270	42	60	0.78	0.56	0.80
xx414PJB103MSZ	10	0.297	0.330	38	55	0.70	0.52	0.70
xx414PJB153MSZ	15	0.396	0.440	31	45	0.59	0.50	0.66
xx414PJB183MSZ	18	0.517	0.575	25	37	0.54	0.42	0.54
xx414PJB223MSZ	22	0.648	0.720	23	34	0.49	0.36	0.48
xx414PJB333MSZ	33	0.828	0.920	18	27	0.40	0.34	0.46
xx414PJB473MSZ	47	1.260	1.40	15	22	0.34	0.28	0.38
xx414PJB563MSZ	56	1.395	1.55	13	19	0.31	0.26	0.34
xx414PJB683MSZ	68	1.62	1.80	11	17	0.29	0.24	0.32
xx414PJB823MSZ	82	1.80	2.00	9.8	14	0.26	0.23	0.31
xx414PJB104MSZ	100	2.47	2.75	9.1	13	0.24	0.21	0.30
xx414PJB124MSZ	120	3.10	3.45	7.7	11	0.22	0.18	0.24
xx414PJB154MSZ	150	3.69	4.10	7.0	10	0.20	0.16	0.22
xx414PJB184MSZ	180	4.32	4.80	6.3	9.0	0.18	0.15	0.20
xx414PJB224MSZ	220	5.40	6.00	4.9	7.0	0.17	0.13	0.18
xx414PJB334MSZ	330	8.37	9.30	4.20	6.0	0.13	0.10	0.14
xx414PJB474MSZ	470	10.8	12.0	3.15	4.5	0.11	0.10	0.13
xx414PJB564MSZ	560	12.6	14.0	3.15	4.5	0.11	0.090	0.12
xx414PJB684MSZ	680	16.6	18.5	2.80	4.0	0.105	0.080	0.10
xx414PJB824MSZ	820	21.6	24.0	2.59	3.7	0.100	0.070	0.090
xx414PJB105MSZ	1000	27.9	31.0	2.10	3.0	0.100	0.065	0.080
xx414PJB155MSZ	1500	39.6	44.0	1.89	2.7	0.090	0.050	0.060

MS ML 416PJB Shielded

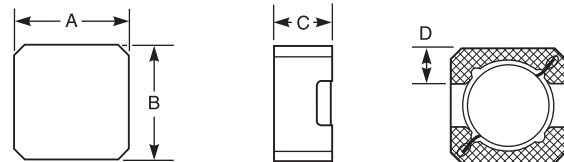
Part number	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx416PJB331MLZ	0.33	0.021	0.023	262	375	5.6	2.2	3.0
xx416PJB681MLZ	0.68	0.049	0.055	154	220	3.7	1.4	1.9
xx416PJB102NLZ	1.0	0.054	0.060	126	180	3.0	1.4	1.9
xx416PJB152MLZ	1.5	0.063	0.070	98	140	2.8	1.3	1.8
xx416PJB222MLZ	2.2	0.090	0.100	80	115	2.5	1.0	1.4
xx416PJB332MLZ	3.3	0.090	0.100	70	100	1.4	1.2	1.6
xx416PJB472MLZ	4.7	0.157	0.175	49	70	1.8	0.88	1.2
xx416PJB562MLZ	5.6	0.234	0.260	42	60	1.6	0.68	0.88
xx416PJB682MLZ	6.8	0.306	0.340	38	55	1.4	0.64	0.78
xx416PJB103MLZ	10	0.315	0.350	28	40	1.1	0.44	0.60
xx416PJB153MLZ	15	0.495	0.550	21	30	0.84	0.42	0.58
xx416PJB223MLZ	22	0.540	0.600	17	25	0.79	0.42	0.56
xx416PJB333MLZ	33	0.742	0.825	15	22	0.48	0.37	0.49
xx416PJB473MLZ	47	1.26	1.40	13	19	0.38	0.32	0.42
xx416PJB683MLZ	68	1.53	1.70	10	15	0.33	0.28	0.37
xx416PJB104MLZ	100	2.16	2.40	8.0	12	0.27	0.24	0.32
xx416PJB124MLZ	120	2.97	3.30	8.0	11.5	0.25	0.22	0.29
xx416PJB154MLZ	150	3.15	3.50	7.0	10.0	0.23	0.20	0.26
xx416PJB184MLZ	180	4.50	5.00	5.6	8.0	0.20	0.18	0.23
xx416PJB224MLZ	220	4.68	5.20	4.9	7.0	0.17	0.17	0.22
xx416PJB334MLZ	330	6.48	7.20	4.9	7.0	0.15	0.14	0.18
xx416PJB474MLZ	470	9.00	10.0	2.8	4.0	0.12	0.10	0.14
xx416PJB564MLZ	560	11.2	12.5	2.5	3.5	0.115	0.090	0.11
xx416PJB684MLZ	680	12.1	13.5	2.0	3.0	0.110	0.090	0.11
xx416PJB824MLZ	820	18.0	20.0	2.0	3.0	0.095	0.080	0.10
xx416PJB105MLZ	1000	19.3	21.5	2.0	3.0	0.095	0.080	0.10
xx416PJB155MLZ	1500	31.5	35.0	1.7	2.5	0.090	0.070	0.090
xx416PJB185MLZ	1800	32.4	36.0	1.4	2.0	0.087	0.060	0.080
xx416PJB225MLZ	2200	36.0	40.0	0.70	1.0	0.085	0.060	0.070
xx416PJB335MLZ	3300	68.4	76.0	0.66	0.95	0.080	0.040	0.050

MS ML 420PJB Shielded

Part number	Inductance ±20% (µH)	DCR max (Ohms)	SRF (MHz)		Isat (A)		
			min	typ	30% drop	20°C rise	40°C rise
xx420PJB471MLZ	0.47	0.038	203	290	3.4	1.6	2.2
xx420PJB821MLZ	0.82	0.058	136.5	195	2.6	1.0	1.2
xx420PJB152MLZ	1.5	0.072	117.6	168	1.9	0.72	1.1
xx420PJB222MLZ	2.2	0.100	100.8	144	1.6	0.70	1.0
xx420PJB332MLZ	3.3	0.125	73.5	105	1.3	0.69	0.88
xx420PJB472MLZ	4.7	0.175	53.2	76	1.1	0.68	0.78
xx420PJB562MLZ	5.6	0.240	52.5	75	1.00	0.60	0.74
xx420PJB682MLZ	6.8	0.255	49.7	71	0.93	0.59	0.68
xx420PJB103MLZ	10	0.350	35.7	51	0.74	0.58	0.64
xx420PJB153MLZ	15	0.500	27.3	39	0.62	0.54	0.60
xx420PJB223MLZ	22	0.670	22.4	32	0.53	0.37	0.50
xx420PJB333MLZ	33	1.05	18.2	26	0.43	0.32	0.44
xx420PJB473MLZ	47	1.45	14.0	20	0.36	0.26	0.35
xx420PJB683MLZ	68	2.00	10.5	15	0.30	0.20	0.28
xx420PJB104MLZ	100	3.10	8.40	12	0.24	0.17	0.22
xx420PJB124MLZ	120	3.50	7.70	11	0.23	0.15	0.20
xx420PJB154MLZ	150	4.25	6.30	9.0	0.21	0.14	0.18
xx420PJB224MLZ	220	6.25	4.90	7.0	0.17	0.12	0.16
xx420PJB334MLZ	330	8.60	3.85	5.5	0.14	0.10	0.15
xx420PJB474MLZ	470	12.7	3.15	4.5	0.11	0.090	0.12
xx420PJB564MLZ	560	15.7	2.80	4.0	0.10	0.080	0.11
xx420PJB684MLZ	680	20.0	2.59	3.7	0.10	0.070	0.10
xx420PJB105MLZ	1000	28.0	2.10	3.0	0.10	0.060	0.090

AE MS ML 425PJB Shielded

Part number	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx425PJB351MSZ	0.35	0.036	0.040	252	360	6.3	2.2	3.1
xx425PJB561MSZ	0.56	0.027	0.030	175	250	5.3	1.9	2.8
xx425PJB102NSZ	1.0	0.036	0.040	126	180	3.1	1.8	2.7
xx425PJB222MSZ	2.2	0.063	0.070	63	90	2.9	1.6	2.3
xx425PJB262MSZ	2.6	0.072	0.080	59	85	2.8	1.5	2.0
xx425PJB332MSZ	3.3	0.072	0.080	52	75	2.4	1.4	2.0
xx425PJB472MSZ	4.7	0.113	0.125	45	65	1.9	1.3	1.8
xx425PJB682MSZ	6.8	0.135	0.150	35	50	1.3	1.0	1.5
xx425PJB103MSZ	10	0.180	0.200	28	40	1.3	0.90	1.25
xx425PJB153MSZ	15	0.234	0.260	22	32	0.94	0.80	1.12
xx425PJB183MSZ	18	0.243	0.270	18	27	0.85	0.70	1.00
xx425PJB223MSZ	22	0.324	0.360	18	26	0.83	0.65	0.90
xx425PJB333MSZ	33	0.378	0.420	14	20	0.68	0.55	0.80
xx425PJB473MSZ	47	0.585	0.650	11	16	0.56	0.45	0.68
xx425PJB683MSZ	68	0.855	0.950	9.0	13	0.46	0.40	0.56
xx425PJB104MSZ	100	1.26	1.40	7.0	10	0.37	0.35	0.50
xx425PJB124MSZ	120	1.44	1.60	6.0	9.0	0.34	0.30	0.45
xx425PJB154MSZ	150	1.80	2.00	5.6	8.0	0.30	0.28	0.40
xx425PJB184MSZ	180	2.25	2.50	5.2	7.5	0.27	0.26	0.36
xx425PJB224MSZ	220	3.33	3.70	4.5	6.5	0.235	0.20	0.30
xx425PJB334MSZ	330	5.31	5.90	3.8	5.5	0.20	0.17	0.23
xx425PJB474MSZ	470	7.02	7.80	3.0	4.5	0.17	0.15	0.20
xx425PJB564MSZ	560	9.00	10.0	2.8	4.0	0.15	0.14	0.18
xx425PJB684MSZ	680	10.4	11.5	2.4	3.5	0.14	0.12	0.16
xx425PJB824MSZ	820	12.6	14.0	2.0	2.9	0.13	0.10	0.14
xx425PJB105MSZ	1000	16.2	18.0	1.9	2.8	0.11	0.098	0.125
xx425PJB155MSZ	1500	22.5	25.0	1.6	2.4	0.105	0.080	0.110
xx425PJB185MSZ	1800	28.4	31.5	1.6	2.3	0.100	0.070	0.095
xx425PJB225MSZ	2200	29.3	32.5	1.4	2.1	0.100	0.070	0.090
xx425PJB335MSZ	3300	43.2	48.0	1.1	1.6	0.094	0.055	0.075



Dimensions

Series	A max	B max	C max	D
414PJB	0.134 3,40	0.134 3,40	0.0552 1,40	0.034 0,87
416PJB	0.154 3,90	0.154 3,90	0.0472 1,20	0.037 0,94
420PJB	0.193 4,90	0.193 4,90	0.0450 1,14	0.039 1,00
425PJB	0.165 4,10	0.165 4,10	0.0709 1,80	0.037 0,94
427PJB	0.173 4,40	0.173 4,40	0.0591 1,50	0.110 2,80
466PJB	0.192 4,88	0.192 4,88	0.1180 3,00	0.065 1,65
486PJB	0.239 6,08	0.239 6,08	0.0980 2,50	0.079 1,99
512PJB	0.239 6,08	0.239 6,08	0.1380 3,50	0.079 1,99

MS ML 427PJB Shielded

Partnumber	Inductance ±20%(µH)	DCR(Ohms)		SRF(MHz)		Isat(A)		Irms(A)	
		nom	max	min	typ	30% drop	20°C rise	40°C rise	40°C rise
xx427PJB301MSZ	0.30	0.040		329	470	5.8	1.9	2.6	
xx427PJB501MSZ	0.50	0.050		231	330	4.5	1.7	2.2	
xx427PJB801MSZ	0.80	0.055		157	225	3.8	1.5	2.0	
xx427PJB102MSZ	1.0	0.060		133	190	3.2	1.4	1.8	
xx427PJB152MSZ	1.5	0.078		105	150	3.2	1.2	1.6	
xx427PJB182MSZ	1.8	0.087		91.0	130	2.9	1.2	1.5	
xx427PJB222MSZ	2.2	0.110		80.0	115	2.35	1.0	1.3	
xx427PJB332MSZ	3.3	0.165		59.0	85.0	1.95	0.92	1.2	
xx427PJB472MSZ	4.7	0.215		47.0	68.0	1.55	0.72	1.0	
xx427PJB562MSZ	5.6	0.260		40.0	58.0	1.5	0.60	0.88	
xx427PJB682MSZ	6.8	0.270		37.0	54.0	1.4	0.56	0.80	
xx427PJB822MSZ	8.2	0.350		35.0	50.0	1.3	0.56	0.78	
xx427PJB103MSZ	10	0.380		30.0	43.0	1.3	0.56	0.76	
xx427PJB123MSZ	12	0.380		26.0	38.0	1.0	0.53	0.70	
xx427PJB153MSZ	15	0.440		25.0	36.0	0.92	0.50	0.66	
xx427PJB183MSZ	18	0.530		21.0	31.0	0.82	0.45	0.60	
xx427PJB223MSZ	22	0.590		19.0	27.0	0.74	0.42	0.54	
xx427PJB333MSZ	33	0.715		16.0	23.0	0.51	0.39	0.52	
xx427PJB473MSZ	47	0.935		12.0	18.0	0.43	0.35	0.46	
xx427PJB563MSZ	56	1.15		11.0	16.0	0.40	0.34	0.43	
xx427PJB683MSZ	68	1.35		10.2	14.6	0.34	0.29	0.38	
xx427PJB104MSZ	100	1.90		7.7	11.0	0.285	0.25	0.32	
xx427PJB124MSZ	120	2.60		7.0	10.0	0.25	0.22	0.27	
xx427PJB154MSZ	150	3.10		6.3	9.0	0.24	0.19	0.26	
xx427PJB224MSZ	220	4.10		4.7	6.7	0.20	0.18	0.23	
xx427PJB334MSZ	330	6.00		3.9	5.6	0.165	0.14	0.18	
xx427PJB474MSZ	470	9.50		3.0	4.3	0.145	0.11	0.18	
xx427PJB564MSZ	560	10.7		2.8	4.0	0.14	0.10	0.14	
xx427PJB684MSZ	680	11.7		2.4	3.5	0.12	0.10	0.14	
xx427PJB824MSZ	820	15.1		2.1	3.0	0.11	0.090	0.11	
xx427PJB105MSZ	1000	16.3		1.8	2.6	0.106	0.080	0.10	
xx427PJB155MSZ	1500	26.4		1.5	2.2	0.100	0.070	0.090	
xx427PJB185MSZ	1800	35.0		1.3	1.9	0.097	0.060	0.080	
xx427PJB225MSZ	2200	42.5		1.3	1.9	0.092	0.050	0.070	
xx427PJB335MSZ	3300	56.0		0.90	1.3	0.083	0.040	0.060	

MS ML 466PJB Shielded

Partnumber	Inductance ±20%(µH)	DCR(Ohms)		SRF(MHz)		Isat(A)		Irms(A)	
		nom	max	min	typ	30% drop	20°C rise	40°C rise	40°C rise
xx466PJB901MSZ	0.90	0.036	0.040	175	250	4.1	1.7	2.2	
xx466PJB122MSZ	1.2	0.039	0.043	147	210	3.7	1.6	2.1	
xx466PJB172MSZ	1.7	0.046	0.051	133	190	3.3	1.5	2.0	
xx466PJB222MSZ	2.2	0.051	0.057	118	168	3.2	1.3	1.7	
xx466PJB332MSZ	3.3	0.059	0.066	88	125	2.6	1.1	1.4	
xx466PJB472MSZ	4.7	0.075	0.083	59	84	2.0	1.0	1.4	
xx466PJB562MSZ	5.6	0.080	0.089	49	70	1.9	1.0	1.3	
xx466PJB682MSZ	6.8	0.089	0.099	39	56	1.7	1.0	1.3	
xx466PJB822MSZ	8.2	0.113	0.125	32	45	1.7	0.88	1.2	
xx466PJB103MSZ	10	0.114	0.127	21	30	1.4	0.80	1.2	
xx466PJB123MSZ	12	0.140	0.155	17	24	1.4	0.76	1.1	
xx466PJB153MSZ	15	0.144	0.160	22	32	0.90	0.74	1.1	
xx466PJB183MSZ	18	0.153	0.170	19	27	0.87	0.72	1.0	
xx466PJB223MSZ	22	0.171	0.190	17	24	0.78	0.70	1.0	
xx466PJB333MSZ	33	0.234	0.260	13	19	0.64	0.68	0.96	
xx466PJB473MSZ	47	0.297	0.330	11.0	16	0.55	0.60	0.80	
xx466PJB683MSZ	68	0.396	0.440	8.4	12	0.44	0.52	0.72	
xx466PJB823MSZ	82	0.423	0.470	7.7	11	0.40	0.48	0.66	
xx466PJB104MSZ	100	0.540	0.600	7.0	10	0.32	0.44	0.60	
xx466PJB124MSZ	120	0.720	0.800	6.3	9.0	0.30	0.36	0.53	
xx466PJB154MSZ	150	0.774	0.860	5.3	7.5	0.263	0.34	0.46	
xx466PJB224MSZ	220	1.22	1.35	4.2	6.0	0.245	0.29	0.40	
xx466PJB334MSZ	330	1.62	1.80	3.5	5.0	0.200	0.26	0.34	
xx466PJB474MSZ	470	2.52	2.80	2.8	4.0	0.146	0.22	0.30	
xx466PJB564MSZ	560	2.88	3.20	2.5	3.6	0.140	0.18	0.26	
xx466PJB684MSZ	680	3.42	3.80	2.1	3.0	0.126	0.16	0.23	
xx466PJB105MSZ	1000	4.59	5.10	1.8	2.5	0.110	0.14	0.20	
xx466PJB155MSZ	1500	6.84	7.60	1.4	2.0	0.089	0.12	0.17	
xx466PJB185MSZ	1800	9.00	10.0	1.3	1.8	0.086	0.10	0.14	
xx466PJB225MSZ	2200	9.90	11.0	1.1	1.6	0.080	0.080	0.12	
xx466PJB335MSZ	3300	17.6	19.5	0.90	1.3	0.067	0.070	0.10	
xx466PJB475MSZ	4700	23.4	26.0	0.80	1.1	0.059	0.065	0.090	

Which version of these parts should you use?

AE	Passes NASA low outgassing specifications Extended temperature applications: -55 up to 155°C Ambient Leach resistant tin-lead, gold and other terminations available.
MS	Extended temperature applications: -55 up to 155°C Ambient Leach resistant tin-lead terminations
ML	Extended temperature applications: -55 up to 155°C Ambient
ST	Low temperature storage: -55°C Extended qualification

MS ML 486PJB Shielded

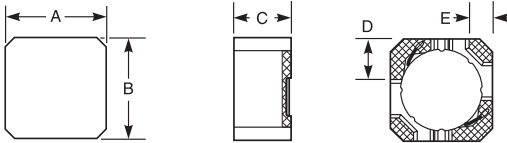
Partnumber	Inductance ±20%(µH)	DCR(Ohms)		SRF(MHz)		Isat(A)		Irms(A)	
		nom	max	min	typ	30% drop	20°C rise	40°C rise	40°C rise
xx486PJB122MSZ	1.2	0.036	0.040	125	178	5.4	0.88	1.3	
xx486PJB222MSZ	2.2	0.041	0.045	70	100	4.1	0.80	1.1	
xx486PJB332MSZ	3.3	0.050	0.055	48	68	3.6	0.80	1.0	
xx486PJB472MSZ	4.7	0.063	0.070	37	53	3.2	0.72	1.0	
xx486PJB682MSZ	6.8	0.086	0.095	28	40	2.8	0.72	1.0	
xx486PJB103MSZ	10	0.095	0.105	25	35	2.2	0.72	1.0	
xx486PJB153MSZ	15	0.122	0.135	16	23	2.2	0.68	0.96	
xx486PJB223MSZ	22	0.203	0.225	12	17	1.6	0.64	0.88	
xx486PJB333MSZ	33	0.234	0.260	9.8	14	1.2	0.52	0.72	
xx486PJB473MSZ	47	0.324	0.360	7.0	10	1.0	0.48	0.64	
xx486PJB683MSZ	68	0.378	0.420	6.7	9.6	0.62	0.46	0.59	
xx486PJB104MSZ	100	0.549	0.610	5.4	7.7	0.52	0.38	0.51	
xx486PJB124MSZ	120	0.675	0.750	4.2	7.4	0.46	0.34	0.46	
xx486PJB154MSZ	150	0.828	0.920	4.5	6.4	0.42	0.32	0.43	
xx486PJB224MSZ	220	1.17	1.30	3.5	5.0	0.35	0.30	0.40	
xx486PJB334MSZ	330	1.80	2.00	2.7	3.8	0.28	0.22	0.31	
xx486PJB474MSZ	470	2.34	2.60	2.2	3.2	0.24	0.19	0.30	
xx486PJB684MSZ	680	3.60	4.00	2.0	2.8	0.20	0.14	0.21	
xx486PJB105MSZ	1000	5.40	6.00	1.6	2.3	0.17	0.12	0.19	
xx486PJB155MSZ	1500	8.10	9.00	1.3	1.8	0.13	0.10	0.16	
xx486PJB185MSZ	1800	10.5	11.7	1.2	1.7	0.12	0.090	0.11	
xx486PJB225MSZ	2200	12.2	13.5	0.9	1.3	0.11	0.090	0.10	
xx486PJB335MSZ	3300	18.9	21.0	0.8	1.1	0.11	0.065	0.090	
xx486PJB475MSZ	4700	27.0	30.0	0.6	0.90	0.10	0.060	0.070	
xx486PJB565MSZ	5600	32.4	36.0	0.5	0.72	0.096	0.055	0.070	
xx486PJB685MSZ	6800	38.7	43.0	0.5	0.70	0.089	0.050	0.060	
xx486PJB825MSZ	8200	48.6	54.0	0.5	0.69	0.088	0.050	0.060	
xx486PJB106MSZ	10000	63.0	70.0	0.5	0.68	0.060	0.045	0.050	

AE MS ML ST 512PJB Shielded

Partnumber	Inductance ±20%(µH)	DCR(Ohms)		SRF(MHz)		Isat(A)		Irms(A)	
		nom	max	min	typ	30% drop	20°C rise	40°C rise	40°C rise
xx512PJB682MSZ	6.8	0.068	0.075	39	55	2.8	1.0	1.5	
xx512PJB822MSZ	8.2	0.086	0.095	34	48	2.7	1.0	1.5	
xx512PJB103MSZ	10	0.090	0.100	26	37	2.5	1.0	1.4	
xx512PJB123MSZ	12	0.099	0.110	20	29	2.3	1.0	1.4	
xx512PJB153MSZ	15	0.113	0.125	18	25	2.0	0.97	1.4	
xx512PJB183MSZ	18	0.126	0.140	17	24	1.9	0.96	1.3	
xx512PJB223MSZ	22	0.131	0.145	17	24	1.7	0.88	1.3	
xx512PJB333MSZ	33	0.162	0.180	11	16	1.5	0.80	1.0	
xx512PJB473MSZ	47	0.221	0.245	9.0	13	1.2	0.64	0.92	
xx512PJB563MSZ	56	0.252	0.280	8.4	12	1.1	0.60	0.86	
xx512PJB683MSZ	68	0.311	0.345	7.6	10.8	0.96	0.58	0.80	
xx512PJB823MSZ	82	0.284	0.315	7.0	10.0	0.55	0.58	0.76	
xx512PJB104MSZ	100	0.338	0.375	6.3	9.0	0.54	0.56	0.72	
xx512PJB124MSZ	120	0.392	0.435	5.8	8.3	0.51	0.48	0.64	
xx512PJB154MSZ	150	0.482	0.535	5.1	7.3	0.45	0.42	0.58	
xx512PJB224MSZ	220	0.648	0.720	4.0	5.6	0.37	0.36	0.51	
xx512PJB334MSZ	330	0.918	1.02	3.0	4.4	0.30	0.32	0.44	
xx512PJB474MSZ	470	1.42	1.58	2.5	3.6	0.26	0.29	0.40	
xx512PJB564MSZ	560	1.58	1.75	2.2	3.1	0.23	0.26	0.37	
xx512PJB684MSZ	680	1.77	1.97	2.0	2.8	0.21	0.22	0.32	
xx512PJB824MSZ	820	2.43	2.70	1.8	2.5	0.19	0.21	0.26	
xx512PJB105MSZ	1000	2.88	3.20	1.5	2.2	0.18	0.19	0.24	

MS ML 528PJB Shielded 

Part number	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)	Isat (A) 30% drop	Irms (A)	
		nom	max			20°C rise	40°C rise
xx528PJB682MS_	6.8	0.059	0.075	63	4.0	1.80	2.40
xx528PJB103MS_	10	0.073	0.090	49	3.3	1.55	2.15
xx528PJB153MS_	15	0.092	0.110	23	2.7	1.35	1.85
xx528PJB223MS_	22	0.102	0.130	21	2.4	1.25	1.75
xx528PJB333MS_	33	0.121	0.145	12	2.1	1.20	1.60
xx528PJB473MS_	47	0.153	0.179	10	1.8	1.10	1.50
xx528PJB683MS_	68	0.193	0.223	8.7	1.4	0.95	1.35
xx528PJB104MS_	100	0.297	0.342	6.5	1.1	0.78	1.10
xx528PJB154MS_	150	0.379	0.442	5.0	0.95	0.70	0.95
xx528PJB224MS_	220	0.564	0.662	4.3	0.77	0.60	0.82
xx528PJB334MS_	330	0.834	0.950	3.0	0.61	0.48	0.65
xx528PJB474MS_	470	1.28	1.45	2.5	0.50	0.39	0.53
xx528PJB684MS_	680	1.88	2.23	2.2	0.43	0.32	0.44
xx528PJB105MS_	1000	2.92	3.22	1.3	0.36	0.23	0.32



Dimensions

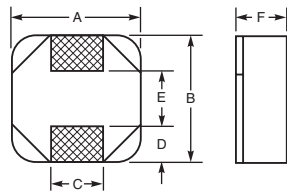
Series	A max	B max	C max	D	E
528PJB	0.318 8,076	0.318 8,076	0.193 4,90	0.126 3,19	0.072 1,84

ST 432PNA Shielded 

Part number	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)	Isat (A) 30% drop	Irms (A)		
		nom	max			20°C rise	40°C rise	
xx432PNA332MLZ	3.3	0.077	0.085	87.2	109.0	1.20	1.25	1.60
xx432PNA472MLZ	4.7	0.104	0.115	74.4	93.0	0.95	1.10	1.50
xx432PNA562MLZ	5.6	0.117	0.130	68.0	85.0	0.89	1.05	1.40
xx432PNA682MLZ	6.8	0.158	0.175	60.0	75.0	0.83	0.96	1.30
xx432PNA822MLZ	8.2	0.171	0.190	56.0	70.0	0.77	0.89	1.20
xx432PNA103MLZ	10	0.189	0.210	50.4	63.0	0.67	0.86	1.15
xx432PNA123MLZ	12	0.252	0.280	44.0	55.0	0.60	0.75	1.00
xx432PNA153MLZ	15	0.297	0.330	40.0	50.0	0.58	0.71	0.95
xx432PNA183MLZ	18	0.324	0.360	33.6	42.0	0.52	0.67	0.85
xx432PNA223MLZ	22	0.432	0.480	30.4	38.0	0.49	0.60	0.80
xx432PNA273MLZ	27	0.504	0.560	28.0	35.0	0.39	0.54	0.71
xx432PNA333MLZ	33	0.558	0.620	24.8	31.0	0.38	0.50	0.67
xx432PNA393MLZ	39	0.738	0.820	22.8	28.5	0.36	0.44	0.58
xx432PNA473MLZ	47	0.837	0.930	22.4	28.0	0.31	0.42	0.56
xx432PNA563MLZ	56	1.08	1.200	17.6	22.0	0.29	0.35	0.47
xx432PNA683MLZ	68	1.20	1.330	14.4	18.0	0.26	0.32	0.43
xx432PNA823MLZ	82	1.35	1.500	13.6	17.0	0.23	0.30	0.40
xx432PNA104MLZ	100	1.89	2.100	12.0	15.0	0.20	0.27	0.36

ST 480PNA Shielded 

Part number	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)	Isat (A) 30% drop	Irms (A)		
		nom	max			20°C rise	40°C rise	
xx480PNA222MLZ	2.2	0.018	0.020	52	65	2.30	2.00	3.30
xx480PNA332MLZ	3.3	0.025	0.028	48	60	1.73	1.60	2.90
xx480PNA472MLZ	4.7	0.034	0.038	42	52	1.42	1.40	2.50
xx480PNA562MLZ	5.6	0.038	0.042	40	50	1.30	1.30	2.30
xx480PNA682MLZ	6.8	0.045	0.050	36	45	1.24	1.20	2.16
xx480PNA822MLZ	8.2	0.052	0.058	34	42	1.18	1.10	2.00
xx480PNA103MLZ	10	0.063	0.070	32	40	1.13	1.00	1.90
xx480PNA123MLZ	12	0.072	0.080	29	36	0.94	0.97	1.60
xx480PNA153MLZ	15	0.090	0.100	26	32	0.86	0.94	1.50
xx480PNA183MLZ	18	0.108	0.120	21	26	0.79	0.89	1.40
xx480PNA223MLZ	22	0.131	0.145	18	23	0.70	0.87	1.30
xx480PNA273MLZ	27	0.145	0.161	15	19	0.62	0.85	1.20
xx480PNA333MLZ	33	0.180	0.200	14	18	0.58	0.80	1.10
xx480PNA393MLZ	39	0.194	0.215	13	16	0.55	0.74	1.00
xx480PNA473MLZ	47	0.243	0.270	12	15	0.51	0.71	0.95
xx480PNA563MLZ	56	0.252	0.280	11	14	0.47	0.70	0.90
xx480PNA683MLZ	68	0.331	0.368	10	12	0.42	0.66	0.85
xx480PNA823MLZ	82	0.378	0.420	9.2	11.5	0.35	0.62	0.80
xx480PNA104MLZ	100	0.522	0.580	8.8	11.0	0.33	0.55	0.69
xx480PNA124MLZ	120	0.549	0.610	8.4	10.5	0.30	0.51	0.62
xx480PNA154MLZ	150	0.738	0.820	8.0	10.0	0.28	0.47	0.58
xx480PNA184MLZ	180	0.900	1.00	7.2	9.0	0.25	0.43	0.54
xx480PNA224MLZ	220	0.990	1.10	6.4	8.0	0.23	0.39	0.50
xx480PNA274MLZ	270	1.29	1.43	6.0	7.5	0.20	0.35	0.45
xx480PNA334MLZ	330	1.42	1.58	5.4	6.8	0.19	0.32	0.42
xx480PNA394MLZ	390	1.62	1.80	4.3	5.4	0.16	0.30	0.38



Dimensions

Series	A max	B max	C	D	E	F
432PNA	0.158 4,0	0.158 4,0	0.043 1,1	0.0031 0,8	0.111 2,8	0.079 2,0
480PNA	0.200 5,1	0.200 5,1	0.181 4,6	0.059 1,50	0.063 1,6	0.122 3,1
511PNA	0.256 6,5	0.256 6,5	0.220 5,6	0.071 1,80	0.079 2,0	0.126 3,2
566PNB	0.484 12,3	0.484 12,3	0.197 5,0	0.098 2,5	0.276 7,0	0.189 4,8
590PNB	0.484 12,3	0.484 12,3	0.197 5,0	0.098 2,5	0.276 7,0	0.24 6,0
612PNB	0.484 12,3	0.484 12,3	0.197 5,0	0.098 2,5	0.276 7,0	0.317 8,05

ST 511PNA Shielded 

Part number	Inductance ±20% (µH)	DCR (Ohms)		SRF (MHz)	Isat (A) 30% drop	Irms (A)		
		nom	max			20°C rise	40°C rise	
xx511PNA472MLZ	4.7	0.050	0.056	52.0	65.0	2.84	2.30	3.10
xx511PNA562MLZ	5.6	0.054	0.060	48.0	60.0	2.74	2.20	2.95
xx511PNA682MLZ	6.8	0.059	0.065	37.6	47.0	2.30	2.10	2.80
xx511PNA822MLZ	8.2	0.063	0.070	36.0	45.0	2.22	2.00	2.65
xx511PNA103MLZ	10	0.077	0.085	31.2	39.0	1.84	1.90	2.50
xx511PNA123MLZ	12	0.099	0.110	26.4	33.0	1.70	1.75	2.35
xx511PNA153MLZ	15	0.122	0.135	21.6	27.0	1.56	1.65	2.20
xx511PNA183MLZ	18	0.144	0.160	19.2	24.0	1.36	1.55	2.05
xx511PNA223MLZ	22	0.171	0.190	16.8	21.0	1.22	1.45	1.90
xx511PNA273MLZ	27	0.212	0.235	15.2	19.0	1.18	1.30	1.75
xx511PNA333MLZ	33	0.279	0.310	14.4	18.0	1.10	1.20	1.60
xx511PNA393MLZ	39	0.311	0.345	13.6	17.0	0.99	1.10	1.45
xx511PNA473MLZ	47	0.342	0.380	12.8	16.0	0.93	0.95	1.30
xx511PNA563MLZ	56	0.387	0.430	11.2	14.0	0.79	0.85	1.15
xx511PNA683MLZ	68	0.522	0.580	9.6	12.0	0.69	0.73	1.00
xx511PNA823MLZ	82	0.576	0.640	8.0	10.0	0.67	0.60	0.85
xx511PNA104MLZ	100	0.738	0.820	7.2	9.0	0.59	0.50	0.69

AE MS ML 566PNB Shielded 

Part number	Inductance µH	DCR (mOhms)		SRF (MHz)	Isat (A) 30% drop	Irms (A)		
		nom	max			20°C rise	40°C rise	
xx566PNB102MSZ	1.0±20%	5.6	6.3	70.0	100	22.24	6.00	8.00
xx566PNB152MSZ	1.5±20%	8.7	9.7	60.0	85.0	17.08	5.80	7.80
xx566PNB272MSZ	2.7±20%	10.3	11.5	49.0	70.0	14.16	5.00	6.80
xx566PNB332MSZ	3.3±20%	15.1	16.8	46.0	65.0	11.98	4.50	6.30
xx566PNB472MSZ	4.7±20%	19.1	21.3	30.0	42.0	10.42	4.40	6.00
xx566PNB562MSZ	5.6±20%	22.1	24.6	26.0	37.0	9.44	3.95	5.75
xx566PNB682MSZ	6.8±20%	24.9	27.7	23.0	33.0	9.00	3.70	5.20
xx566PNB822MSZ	8.2±20%	27.4	30.5	22.0	31.0	8.32	3.35	4.67
xx566PNB103MSZ	10±20%	36.8	40.9	19.0	27.0	7.18	2.85	3.90
xx566PNB123MSZ	12±20%	38.9	43.3	17.0	24.0	6.52	2.69	3.65
xx566PNB153MSZ	15±20%	48.6	54.1	15.0	22.0	5.78	2.50	3.40
xx566PNB183MSZ	18±20%	51.0	56.7	13.0	19.0	5.32	2.41	3.19
xx566PNB223MSZ	22±20%	60.3	67.0	12.6	18.0	4.75	2.30	3.14
xx566PNB273MSZ	27±20%	67.5	75.0	11.2	16.0	4.32	2.06	2.86
xx566PNB333MSZ	33±20%	81.7	90.8	10.5	15.0	3.96	1.90	2.60
xx566PNB393MSZ	39±20%	95.2	105.8	9.3	13.3	3.72	1.73	2.39
xx566PNB473MSZ	47±20%	120.6	134.0	8.4	12.0	3.34	1.50	2.10
xx566PNB563MSZ	56±20%	133.8	148.7	7.4	10.6	3.02	1.44	2.01
xx566PNB683MSZ	68±20%	167.3	185.9	6.8	9.7	2.74	1.30	1.80
xx566PNB823MSZ	82±20%	188.5	209.5	6.2	8.8	2.46	1.24	1.72
xx566PNB104MSZ	100±20%	216.8	240.9	5.6	8.0	2.24	1.19	1.65
xx566PNB124KSZ	120±10%	287.2	319.2	5.0	7.2	2.04	1.03	1.42
xx566PNB154KSZ	150±10%	326.7	363.0	4.6	6.6	1.82	0.95	1.30
xx566PNB184KSZ	180±10%	379.5	421.7	4.1	5.9	1.68	0.89	1.21
xx566PNB224KSZ	220±10%	488.2	542.5	3.7	5.3	1.50	0.76	1.00
xx566PNB274KSZ	270±10%	560.1	622.4	3.3	4.7	1.36	0.72	0.95
xx566PNB334KSZ	330±10%	731.4	812.7	2.9	4.1	1.20	0.65	0.87
xx566PNB394KSZ	390±10%	813.7	904.2	2.7	3.8	1.10	0.59	0.79
xx566PNB474KSZ	470±10%	935.1	1039	2.5	3.5	1.00	0.56	0.76
xx566PNB564KSZ	560±10%	1193	1326	2.1	3.0	0.956	0.50	0.67
xx566PNB684KSZ	680±10%	1370	1523	2.0	2.8	0.882	0.46	0.62
xx566PNB824KSZ	820±10%	1590	1767	1.8	2.6	0.792	0.43	0.58
xx566PNB105KSZ	1000±10%	2090	2323	1.7	2.4	0.728	0.36	0.50

AE MS ML 590PNB Shielded



Part number	Inductance (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx590PNB102NSZ	1.0±30%	5.8	6.5	70	100	22.76	6.00	8.00
xx590PNB152NSZ	1.5±30%	8.8	9.8	56	80.0	117.64	5.30	7.60
xx590PNB222NSZ	2.2±30%	11.5	12.8	39	55.0	15.08	5.20	7.30
xx590PNB332NSZ	3.3±30%	12.6	14.0	29	42.0	13.12	5.00	7.00
xx590PNB472MSZ	4.7±20%	13.9	15.5	27	38.0	12.00	4.50	7.00
xx590PNB562MSZ	5.6±20%	14.9	16.6	21	30.0	10.38	4.00	6.40
xx590PNB682MSZ	6.8±20%	16.6	18.5	19.0	8.80	9.44	3.80	5.90
xx590PNB822MSZ	8.2±20%	20.2	22.5	18.0	27.38	7.98	3.40	4.80
xx590PNB103MSZ	10±20%	21.5	23.9	15.0	26.92	7.48	3.00	4.00
xx590PNB123MSZ	12±20%	24.5	27.3	14.0	6.56	7.08	2.80	3.70
xx590PNB153MSZ	15±20%	30.7	34.2	12.6	6.04	6.54	2.60	3.50
xx590PNB183MSZ	18±20%	35.4	39.4	11.2	5.54	6.00	2.50	3.30
xx590PNB223MSZ	22±20%	36.6	40.7	10.5	5.04	5.44	2.30	3.10
xx590PNB273MSZ	27±20%	51.3	57.0	9.0	4.32	4.68	2.10	2.90
xx590PNB333MSZ	33±20%	54.9	61.0	8.7	4.00	4.34	2.00	2.70
xx590PNB393MSZ	39±20%	58.0	64.5	8.4	3.80	4.14	1.90	2.60
xx590PNB473MSZ	47±20%	80.1	89.0	8.0	3.26	3.54	1.85	2.50
xx590PNB563MSZ	56±20%	82.5	91.7	7.3	3.04	3.28	1.75	2.40
xx590PNB683MSZ	68±20%	94.5	105.0	7.0	2.82	3.04	1.70	2.30
xx590PNB823MSZ	82±20%	131.6	146.3	6.0	2.54	2.74	1.60	2.20
xx590PNB104MSZ	100±20%	141.8	157.6	5.5	2.34	2.54	1.50	2.10
xx590PNB124KSZ	120±10%	193.3	214.8	4.8	2.08	2.28	1.38	1.85
xx590PNB154KSZ	150±10%	215.4	239.4	4.5	1.90	2.06	1.20	1.66
xx590PNB184KSZ	180±10%	254.2	282.5	4.3	1.70	1.84	1.14	1.58
xx590PNB224KSZ	220±10%	314.1	349.0	3.9	1.48	1.60	1.00	1.42
xx590PNB274KSZ	270±10%	368.8	409.8	3.0	1.38	1.48	0.90	1.45
xx590PNB334KSZ	330±10%	481.3	534.8	2.8	1.20	1.30	0.84	1.16
xx590PNB394KSZ	390±10%	517.5	575.0	2.5	1.16	1.28	0.78	1.08
xx590PNB474KSZ	470±10%	721.2	801.4	2.1	31.00	1.10	0.70	0.96
xx590PNB564KSZ	560±10%	773.1	859.0	2.0	0.980	1.02	0.64	0.88
xx590PNB684KSZ	680±10%	867.6	964.0	1.8	0.886	0.956	0.58	0.80
xx590PNB824KSZ	820±10%	1158	1287	1.7	0.784	0.854	0.53	0.73
xx590PNB105KSZ	1000±10%	1273	1415	1.6	0.672	0.726	0.48	0.68

AE MS ML 612PNB Shielded



Part number	Inductance (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx612PNB102NSZ	1.0±30%	6.3	7.0	80	115	36.84	7.1	10.1
xx612PNB142NSZ	1.4±30%	8.8	9.8	60	85	29.52	6.8	9.8
xx612PNB222NSZ	2.2±30%	9.4	10.5	42	60	25.96	6.3	9.2
xx612PNB272NSZ	2.7±30%	10.1	11.3	28	40	22.04	6.1	8.6
xx612PNB392NSZ	3.9±30%	11.7	13.0	25	35	19.20	5.7	7.7
xx612PNB472MSZ	4.7±20%	13.9	15.5	23	33	17.76	4.3	6.2
xx612PNB562MSZ	5.6±20%	15.7	17.5	21	30	15.74	4.3	6.2
xx612PNB682MSZ	6.8±20%	19.1	21.3	16	23	14.20	4.2	6.0
xx612PNB822MSZ	8.2±20%	20.3	22.6	14	20	13.28	4.1	5.9
xx612PNB103MSZ	10±20%	21.8	24.3	12	17	12.48	4.0	5.7
xx612PNB123MSZ	12±20%	23.2	25.8	11	15	10.44	3.7	5.2
xx612PNB153MSZ	15±20%	27.9	31.0	9.0	13	9.94	3.5	4.9
xx612PNB183MSZ	18±20%	30.8	34.3	8.4	12	9.36	3.0	4.5
xx612PNB223MSZ	22±20%	35.5	39.5	7.7	11	8.34	2.9	4.0
xx612PNB273MSZ	27±20%	45.0	50.0	7.0	10	7.54	2.6	3.6
xx612PNB333MSZ	33±20%	61.9	68.8	6.6	9.5	6.98	2.3	3.1
xx612PNB393MSZ	39±20%	69.1	76.8	6.0	8.5	6.28	2.1	3.0
xx612PNB473MSZ	47±20%	72.3	80.4	5.3	7.5	5.66	2.0	2.9
xx612PNB563MSZ	56±20%	80.2	89.2	4.9	7.0	5.30	1.9	2.7
xx612PNB683MSZ	68±20%	91.3	101.5	4.6	6.5	4.74	1.8	2.6
xx612PNB823MSZ	82±20%	125.9	139.9	3.5	5.0	4.38	1.6	2.3
xx612PNB104MSZ	100±20%	135.1	150.2	3.1	4.5	3.78	1.5	2.2
xx612PNB124KSZ	120±10%	182.3	202.6	3.0	4.3	3.58	1.4	1.9
xx612PNB154KSZ	150±10%	216.5	240.6	2.9	4.1	3.10	1.3	1.8
xx612PNB184KSZ	180±10%	229.0	254.5	2.8	4.0	2.84	1.2	1.7
xx612PNB224KSZ	220±10%	323.6	359.6	2.4	3.4	2.62	1.0	1.6
xx612PNB274KSZ	270±10%	415.6	461.8	2.2	3.1	2.34	0.90	1.2
xx612PNB334KSZ	330±10%	487.3	541.5	2.0	2.9	2.06	0.80	1.0
xx612PNB394KSZ	390±10%	533.6	592.9	1.9	2.7	1.92	0.75	1.0
xx612PNB474KSZ	470±10%	707.5	786.2	1.6	2.2	1.74	0.66	0.90
xx612PNB564KSZ	560±10%	777.4	863.8	1.4	2.0	1.66	0.60	0.80
xx612PNB684KSZ	680±10%	1045	1162	1.2	1.7	1.46	0.55	0.75
xx612PNB824KSZ	820±10%	1166	1296	1.0	1.4	1.42	0.50	0.70
xx612PNB105KSZ	1000±10%	1334	1482	0.90	1.3	1.18	0.48	0.68

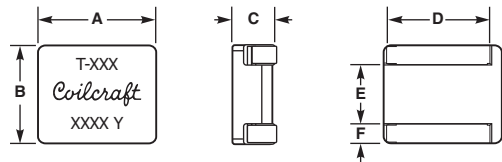
Which version of these parts should you use?

- AE** Passes NASA low outgassing specifications
Extended temperature applications: -55 up to 155°C Ambient
Leach resistant tin-lead, gold and other terminations available.
- MS** Extended temperature applications: -55 up to 155°C Ambient
Leach resistant tin-lead terminations
- ML** Extended temperature applications: -55 up to 155°C Ambient
- ST** Low temperature storage: -55°C
Extended qualification

ST 550PRT/563PRC Shielded



Part number	Inductance ±20% (µH)	DCR ±8% (mOhms)	SRF typ (MHz)	Isat (A)	Irms (A)	Height max (mm)
Low core loss						
xx550PRT251MLZ	0.25	0.925	160	35	25	5.1
xx550PRT361MLZ	0.36	0.925	140	24	24	5.1
xx550PRT561MLZ	0.56	0.925	110	13	25	5.1
Soft saturation						
xx563PRC361MLZ	0.36	0.925	120	36	24	4.7
xx563PRC651MLZ	0.65	1.50	115	24	19	5.5
xx563PRC112MLZ	1.10	1.95	95	20	20	6.1
xx563PRC162MLZ	1.65	2.53	55	17	20	7.1
xx563PRC232MLZ	2.30	3.08	50	16	17	7.8



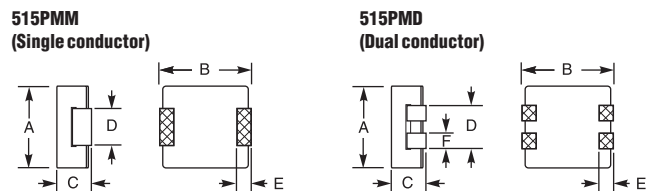
Dimensions

Series	Amax	Bmax	Cmax	D	E	F
550PRT	0.453 11,50	0.384 9,75	0.200 5,10	0.360 9,14	0.223 5,67	0.069 1,75
563PRC361	0.453 11,50	0.384 9,75	0.185 4,70	0.360 9,14	0.223 5,67	0.069 1,75
563PRC651	0.453 11,50	0.384 9,75	0.217 5,50	0.360 9,14	0.223 5,67	0.069 1,75
563PRC112	0.453 11,50	0.384 9,75	0.240 6,10	0.360 9,14	0.223 5,67	0.069 1,75
563PRC162	0.453 11,50	0.384 9,75	0.280 7,10	0.360 9,14	0.223 5,67	0.069 1,75
563PRC232	0.453 11,50	0.384 9,75	0.307 7,80	0.360 9,14	0.223 5,67	0.069 1,75

AE MS ML ST 515PMM/515PMD Shielded



Part number	Inductance ±20% (µH)	DCR ±5% (mOhms)	SRF typ (MHz)	Isat (A)	Irms (A)
Single conductor					
xx515PMM500MLZ	0.050	0.123	3800	50	40
xx515PMM640MLZ	0.064	0.123	3650	32	40
xx515PMM820MLZ	0.082	0.123	3750	22	40
xx515PMM101MLZ	0.100	0.123	3750	20	40
Dual conductor in parallel					
xx515PMD500MLZ	0.050	0.209	3750	50	38
xx515PMD640MLZ	0.064	0.209	3650	32	38
xx515PMD820MLZ	0.082	0.209	3750	22	38
xx515PMD101MLZ	0.100	0.209	3750	20	38
Dual conductor in series					
xx515PMD500MLZ	0.188	1.00	1500	21	17
xx515PMD640MLZ	0.272	1.00	1300	14	17
xx515PMD820MLZ	0.350	1.00	1200	11	17
xx515PMD101MLZ	0.400	1.00	950	8	17



Dimensions

Series	Amax	Bmax	Cmax	D	E	F
515PMM	0.264 6,70	0.295 7,50	0.118 3,00	0.139 3,53	0.039 1,0	
515PMD	0.264 6,70	0.295 7,50	0.118 3,00	0.139 3,53	0.067 1,7	0.050 1,27

AE MS ML 528PMM



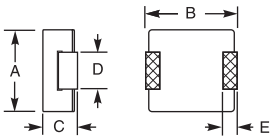
Part number	Inductance ±10% (µH)	DCR ±5% (mOhms)	SRF typ (MHz)	Isat (A)	Irms (A)
xx528PMM360KSZ	0.036	0.17	1150	100	39
xx528PMM500KSZ	0.050	0.17	900	84	39
xx528PMM700KSZ	0.070	0.17	750	65	39
xx528PMM101KSZ	0.100	0.17	110	42	39
xx528PMM121KSZ	0.120	0.17	78	33	39
xx528PMM151KSZ	0.150	0.17	67	27	39

AE MS ML ST 534PMM



Part number	Inductance ±20% (µH)	DCR (mOhms) typ max	SRF typ (MHz)	Isat (A)	Irms (A)
xx534PMM750MSZ	0.075	0.230 0.246	200	61.0	43.0
xx534PMM101MSZ	0.100	0.230 0.246	145	50.0	43.0
xx534PMM121MSZ	0.125	0.230 0.246	140	37.0	43.0
xx534PMM151MSZ	0.150	0.230 0.246	133	30.0	43.0
xx534PMM231MSZ	0.230	0.230 0.246	70	25.5	43.0

528PMM and 534PMM (Single conductor)



Dimensions

Series	A max	B max	C max	D	E
528PMM	0.295 7.49	0.300 7.62	0.195 4.96	0.105 2.67	0.085 2.16
534PMM	0.271 6.88	0.410 10.41	0.203 5.16	0.118 3.00	0.100 2.54

AE MS ML 483PYA Shielded



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)			Irms (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise	20°C rise	40°C rise	
xx483PYA121MLZ	0.12	1.60	1.85	132	165	45	15.8	20.3			
xx483PYA161MLZ	0.16	2.35	2.70	121	152	41	15.0	19.5			
xx483PYA271MLZ	0.27	3.45	3.85	77	97	29.5	14.3	18.8			
xx483PYA451MLZ	0.45	4.60	5.05	58	73	24.5	12.8	16.5			
xx483PYA601MLZ	0.60	6.45	7.10	52	66	20.5	11.3	13.9			
xx483PYA901MLZ	0.90	10.63	11.10	44	56	19.1	8.6	11.4			
xx483PYA112MLZ	1.1	12.60	13.10	40	50	17.1	7.5	9.0			

AE MS ML 486PYA Shielded



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)			Irms (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise	20°C rise	40°C rise	
xx486PYA161MSZ	0.16	2.15	2.36	146	183	31.0	10.7	16.7			
xx486PYA331MSZ	0.33	3.20	3.52	86	108	23.0	10.4	14.4			
xx486PYA601MSZ	0.60	4.11	4.52	60	75	17.6	10.2	13.3			
xx486PYA801MSZ	0.80	5.14	5.65	50	63	15.1	7.5	9.8			
xx486PYA102MSZ	1.0	8.50	9.40	54	68	14.0	6.5	8.3			
xx486PYA222MSZ	2.2	13.20	14.50	30	38	9.1	5.4	7.3			
xx486PYA332MSZ	3.3	21.20	23.30	22	28	7.1	4.4	6.1			
xx486PYA472MSZ	4.7	32.70	36.00	18	23	5.8	3.2	4.4			

AE MS ML 512PYA Shielded



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)			Irms (A)*		
		nom	max	min	typ	30% drop	20°C rise	40°C rise	20°C rise	40°C rise	
xx512PYA181MSZ	0.18	1.59	1.75	113	141	39	18.0	24.0			
xx512PYA331MSZ	0.33	2.30	2.53	71	89	30	15.0	18.8			
xx512PYA561MSZ	0.56	3.01	3.31	49	61	29	12.0	16.5			
xx512PYA102MSZ	1.0	5.62	6.18	40	50	23	9.8	13.5			
xx512PYA122MSZ	1.2	6.82	7.50	34	43	22	9.0	12.0			
xx512PYA182MSZ	1.8	9.57	10.52	27	34	18.2	7.6	10.5			
xx512PYA222MSZ	2.2	12.70	13.97	24	30	15.9	5.3	7.5			
xx512PYA332MSZ	3.3	19.92	20.81	21	26	12.2	4.5	6.0			

* I rms ratings for AT version are lower than shown here. See web site for actual current ratings

AE MS ML 513PYA Shielded



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)			Irms (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise	20°C rise	40°C rise	
xx513PYA151MSZ	0.15	1.9	2.5	129	161	46.0	18	24			
xx513PYA271MSZ	0.27	2.9	3.8	90	112	30.0	15	21			
xx513PYA331MSZ	0.33	4.0	5.2	70	88	28.0	14	20			
xx513PYA471MSZ	0.47	5.3	6.4	58	72	24.3	12	17			
xx513PYA681MSZ	0.68	7.9	9.5	43	54	22.3	10	13			
xx513PYA102MSZ	1.0	9.8	10.8	37	46	16.4	8.0	11			
xx513PYA122MSZ	1.2	11.5	12.8	34	42	14.5	7.0	10			
xx513PYA152MSZ	1.5	16.7	18.6	30	37	11.7	6.0	9.0			
xx513PYA222MSZ	2.2	24.4	27.5	23	29	11.2	5.0	7.0			

AE MS ML 514PYA Shielded

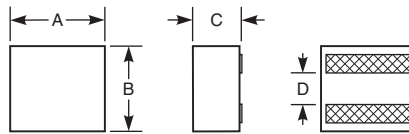


Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)			Irms (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise	20°C rise	40°C rise	
xx514PYA161MSZ	0.16	1.15	1.26	126	158	60.0	24.9	32.5			
xx514PYA301MSZ	0.30	1.75	1.92	81	101	41.0	21.0	27.6			
xx514PYA601MSZ	0.60	3.00	3.30	58	72	36.0	18.0	23.0			
xx514PYA102MSZ	1.0	4.55	5.00	50	63	28.0	16.1	21.8			
xx514PYA152MSZ	1.5	7.60	8.36	41	51	23.5	11.9	15.0			
xx514PYA222MSZ	2.2	13.70	15.07	32	40	18.0	10.0	12.9			
xx514PYA272MSZ	2.7	15.70	17.30	29	36	12.8	9.2	11.4			
xx514PYA332MSZ	3.3	19.50	21.45	23	29	12.3	8.0	10.0			
xx514PYA472MSZ	4.7	25.20	27.72	17	21	12.0	6.9	9.0			
xx514PYA562MSZ	5.6	30.25	33.30	14	17	11.5	5.3	7.3			
xx514PYA682MSZ	6.8	45.00	51.75	12	15	8.7	4.4	6.8			
xx514PYA822MSZ	8.2	53.00	60.95	10	13	8.4	2.9	5.9			

AE MS ML 515PYA Shielded



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)			Irms (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise	20°C rise	40°C rise	
xx515PYA561MSZ	0.56	4.15	4.56	77	96	18.1	10.7	14.3			
xx515PYA821MSZ	0.82	5.15	5.66	50	63	14.8	8.9	12.4			
xx515PYA122MSZ	1.2	6.16	6.76	43	54	12.9	8.7	11.9			
xx515PYA152MSZ	1.5	7.10	7.80	38	48	11.5	8.4	11.6			
xx515PYA222MSZ	2.2	9.05	9.95	33	41	9.5	6.8	9.5			
xx515PYA332MSZ	3.3	16.90	18.60	27	34	7.4	5.3	7.0			
xx515PYA472MSZ	4.7	21.95	24.15	23	29	6.3	4.6	6.2			
xx515PYA562MSZ	5.6	23.45	25.80	20	25	5.7	4.0	5.4			
xx515PYA682MSZ	6.8	26.75	29.45	17	21	5.4	3.5	4.8			
xx515PYA822MSZ	8.2	31.75	34.95	14	18	5.1	3.4	4.6			
xx515PYA103MSZ	10	40.90	45.00	12	15	4.6	2.7	3.7			
xx515PYA153MSZ	15	69.70	76.70	10	13	3.5	2.2	2.9			
xx515PYA223MSZ	22	90.60	99.65	9	11	2.8	1.9	2.6			



Dimensions

Series	A max	B max	C max	D
483PYA	0.266 6.76	0.258 6.56	0.083 2.1	0.110 2.79
486PYA	0.224 5.68	0.216 5.48	0.122 3.1	0.091 2.31
512PYA	0.266 6.78	0.258 6.56	0.122 3.1	0.110 2.79
513PYA	0.315 8.00	0.315 8.00	0.079 2.0	0.123 3.12
514PYA	0.315 8.00	0.315 8.00	0.122 3.1	0.123 3.12
515PYA	0.224 5.68	0.216 5.48	0.201 5.1	0.091 2.31
524PYA	0.266 6.76	0.258 6.56	0.240 6.1	0.110 2.79
541PYA	0.315 8.00	0.303 7.70	0.276 7.0	0.123 3.12
611PYA	0.465 11.8	0.414 10.5	0.394 10.0	0.175 4.45
619PYA ≤1.0µH	0.646 16.4	0.606 15.4	0.323 8.2	0.299 7.6
619PYA >1.0µH	0.646 16.4	0.606 15.4	0.315 8.0	0.299 7.6

AT AE 524PYA Shielded



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx524PYA681MSZ	0.68	3.10	3.41	47	59	23	14.3	18.8
xx524PYA102MSZ	1.0	3.81	4.19	37	47	21	12.8	17.3
xx524PYA182MSZ	1.8	5.30	5.83	28	36	18.1	10.5	13.5
xx524PYA222MSZ	2.2	6.00	6.60	24	31	16.4	9.8	12.8
xx524PYA302MSZ	3.0	7.45	8.19	20	26	14.6	9.0	12.0
xx524PYA472MSZ	4.7	13.10	14.40	16	21	10.5	5.3	7.5
xx524PYA562MSZ	5.6	14.46	15.90	16	20	9.9	5.3	7.5
xx524PYA682MSZ	6.8	18.90	20.80	14	18	9.2	5.3	6.8
xx524PYA822MSZ	8.2	24.00	26.40	12	16	8.4	4.5	6.0
xx524PYA103MSZ	10	27.00	29.82	11	14	7.6	3.8	5.3
xx524PYA153MSZ	15	39.77	43.75	8.8	11	5.8	3.4	4.5
xx524PYA223MSZ	22	55.12	60.63	7.2	9	5.6	2.7	3.8

* Irms ratings for AT version are lower than shown here. See web site for actual current ratings

AE MS 541PYA Shielded



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx541PYA161MSZ	0.16	0.75	0.83	166	207	78.0	22.9	27.1
xx541PYA301MSZ	0.30	1.06	1.17	108	135	55.6	19.6	25.1
xx541PYA551MSZ	0.55	1.42	1.56	71	89	43.0	17.6	21.8
xx541PYA651MSZ	0.65	1.75	1.93	59	74	40.0	15.8	19.9
xx541PYA801MSZ	0.80	2.08	2.29	54	67	37.8	15.6	19.4
xx541PYA102MSZ	1.0	2.55	2.81	51	64	34.8	15.0	18.8
xx541PYA122MSZ	1.2	3.10	3.41	34	43	31.2	12.2	16.2
xx541PYA182MSZ	1.8	4.05	4.46	34	43	25.0	11.9	15.8
xx541PYA222MSZ	2.2	5.73	6.33	28	35	19.6	9.9	13.4
xx541PYA332MSZ	3.3	8.56	9.42	26	32	19.4	8.7	11.3
xx541PYA472MSZ	4.7	12.96	14.26	21	26	15.2	7.9	10.2
xx541PYA562MSZ	5.6	13.67	15.03	17	21	13.0	6.4	8.6
xx541PYA682MSZ	6.8	17.84	19.62	16	20	12.8	5.1	6.9

AE MS 611PYA Shielded



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx611PYA221MSZ	0.22	0.45	0.50	92	115	98.8	30.8	41.6
xx611PYA451MSZ	0.45	0.65	0.72	53	66	70.5	30.0	39.8
xx611PYA681MSZ	0.68	0.87	0.96	42	53	62.0	36.0	48.0
xx611PYA102MSZ	1.0	1.00	1.10	34	42	55.0	24.0	32.6
xx611PYA152MSZ	1.5	1.60	1.76	26	33	36.6	23.3	30.4
xx611PYA222MSZ	2.2	2.55	2.80	18	22	34.0	18.4	24.0
xx611PYA332MSZ	3.3	3.70	4.10	17	21	27.4	13.7	18.8
xx611PYA472MSZ	4.7	5.20	5.70	15	19	25.4	13.1	18.0
xx611PYA562MSZ	5.6	6.30	6.93	13	16	23.6	11.8	15.9
xx611PYA682MSZ	6.8	8.10	8.90	11	14	21.8	10.5	13.9
xx611PYA822MSZ	8.2	11.70	12.90	9	12	18.3	9.7	12.8
xx611PYA103MSZ	10	13.40	14.75	8	11	17.5	8.6	11.6
xx611PYA153MSZ	15	16.90	18.60	7	9	15.5	7.4	10.4

AE MS 619PYA Shielded

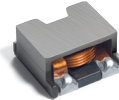


Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx619PYA401MSZ	0.40	0.50	0.70	42.4	53.0	111	35.3	45.0
xx619PYA741MSZ	0.74	0.72	0.86	28.1	35.1	86.0	32.4	44.8
xx619PYA102MSZ	1.0	0.93	1.12	24.0	30.0	73.5	30.5	43.1
xx619PYA132MSZ	1.3	1.15	1.38	21.0	26.2	65.0	26.0	35.0
xx619PYA182MSZ	1.8	1.61	1.93	17.0	21.3	57.0	24.9	32.9
xx619PYA202MSZ	2.0	1.91	2.29	16.1	20.1	51.0	22.1	29.9
xx619PYA302MSZ	3.0	2.62	3.10	12.8	16.0	43.0	19.2	25.8
xx619PYA452MSZ	4.5	3.82	4.58	10.0	12.5	34.2	15.3	20.3
xx619PYA532MSZ	5.3	4.35	5.22	9.4	11.8	33.0	14.6	19.9
xx619PYA612MSZ	6.1	5.66	6.79	9.4	11.7	31.0	12.7	17.0

Which version of these parts should you use?

AE	Passes NASA low outgassing specifications Extended temperature applications: -55 up to 155°C Ambient Leach resistant tin-lead, gold and other terminations available.
MS	Extended temperature applications: -55 up to 155°C Ambient Leach resistant tin-lead terminations
ML	Extended temperature applications: -55 up to 155°C Ambient
AT	Extended temperature applications: Down to -60°C, up to +300°C
ST	Low temperature storage: -55°C Extended qualification

AE MS 558PTA Shielded



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx558PTA331MSZ	0.33	3.6	4.0	119	170	30.5	12.5	16.3
xx558PTA801MSZ	0.80	3.6	4.0	70.0	100	25.6	12.5	16.3
xx558PTA102MSZ	1.0	3.6	4.0	66.5	95.0	17.5	12.5	16.3
xx558PTA122MSZ	1.2	5.4	6.0	63.7	91.0	21.3	11.0	15.0
xx558PTA132MSZ	1.3	3.6	4.0	56.7	81.0	17.2	12.5	16.3
xx558PTA152MSZ	1.5	5.4	6.0	52.5	75.0	14.5	11.0	15.0
xx558PTA182MSZ	1.8	5.4	6.0	49.0	70.0	14.3	11.0	15.0
xx558PTA202MSZ	2.0	8.1	9.0	45.5	65.0	16.2	8.5	11.5
xx558PTA222MSZ	2.2	3.6	4.0	40.6	58.0	10.0	12.5	16.3
xx558PTA252MSZ	2.5	6.8	7.5	38.5	55.0	12.1	9.0	12.0
xx558PTA322MSZ	3.2	5.4	6.0	37.1	53.0	8.5	11.0	15.0
xx558PTA402MSZ	4.0	8.1	9.0	32.9	47.0	8.8	8.5	11.5
xx558PTA432MSZ	4.3	6.8	7.5	30.8	44.0	7.0	9.0	12.0
xx558PTA572MSZ	5.7	8.1	9.0	24.5	35.0	6.0	8.5	11.5

AE MS 598PTA Shielded

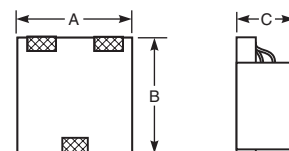


Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx598PTA331KSZ	0.33	0.77	0.85	140	200	43	13.0	16.9
xx598PTA651KSZ	0.65	0.77	0.85	112	160	28	13.0	16.9
xx598PTA102KSZ	1.0	2.36	2.60	52.5	75.0	33.5	9.5	13.0
xx598PTA182KSZ	1.8	2.36	2.60	35.0	50.0	20	9.5	13.0
xx598PTA272KSZ	2.7	2.36	2.60	29.4	42.0	14	9.5	13.0
xx598PTA402KSZ	4.0	5.50	6.05	23.8	34.0	13	7.1	9.4
xx598PTA472KSZ	4.7	5.50	6.05	22.4	32.0	12	7.1	9.4
xx598PTA602KSZ	6.0	5.50	6.05	19.6	28.0	9.5	7.1	9.4
xx598PTA802KSZ	8.0	9.83	10.81	18.2	26.0	9.0	5.5	7.6
xx598PTA103KSZ	10	9.83	10.81	16.8	24.0	7.5	4.4	7.2
xx598PTA223KSZ	22	9.83	10.81	9.10	13.0	3.3	4.4	7.2

ST 615PTA Shielded



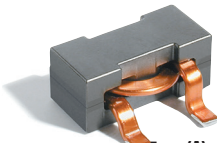
Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz) typ	Isat (A)		
		typ	max		30% drop	20°C rise	40°C rise
xx615PTA103MLZ	10	13.7	15.0	26.9	13.16	6.4	9.2
xx615PTA153MLZ	15	13.7	15.0	24.3	8.60	6.4	9.2
xx615PTA223MLZ	22	21.0	23.1	20.3	7.36	5.7	7.7
xx615PTA333MLZ	33	21.0	23.1	15.7	4.76	5.7	7.7
xx615PTA473MLZ	47	21.0	23.1	13.2	3.20	5.7	7.7



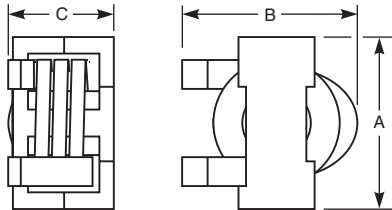
Dimensions

Series	A max	B max	C max
558PTA	0.402 11.0	0.433 11.0	0.205 5.2
598PTA	0.508 12.9	0.512 13.0	0.228 5.8
615PTA	0.531 13.5	0.531 13.5	0.354 9.0

AE MS ML 63x/64xPTA Shielded



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx630PTA301MSZ	0.30	0.740	0.630	385	550	100	41	54
xx632PTA301MSZ	0.30	1.00	0.900	127	182	100	36	45
xx630PTA501MSZ	0.50	0.740	0.630	380	544	60	41	54
xx632PTA501MSZ	0.50	1.00	0.900	104	148	81	36	45
xx641PTA501MSZ	0.50	1.34	1.20	113	161	100	30	40
xx630PTA601MSZ	0.60	0.740	0.630	454	648	49	41	54
xx632PTA601MSZ	0.60	1.00	0.900	80	115	70	36	45
xx637PTA601MSZ	0.60	1.34	1.20	87	124	90	30	40
xx641PTA601MSZ	0.60	1.60	1.44	80	115	97	25	35
xx630PTA681MSZ	0.68	0.740	0.630	318	454	45	41	54
xx632PTA681MSZ	0.68	1.00	0.900	95	136	62	36	45
xx637PTA681MSZ	0.68	1.34	1.20	95	135	78	30	40
xx641PTA681MSZ	0.68	1.60	1.44	72	103	85	25	35
xx645PTA681MSZ	0.68	1.82	1.70	73	104	98	23	30
xx630PTA801MSZ	0.80	0.740	0.630	397	567	38	41	54
xx632PTA801MSZ	0.80	1.00	0.900	64	92	53	36	45
xx637PTA801MSZ	0.80	1.34	1.20	79	113	70	30	40
xx641PTA801MSZ	0.80	1.60	1.44	64	91	75	25	35
xx645PTA801MSZ	0.80	1.82	1.70	65	93	85	23	30
xx648PTA801MSZ	0.80	2.15	1.94	73	104	98	21	27
xx630PTA901MSZ	0.90	0.740	0.630	390	557	33	41	54
xx632PTA901MSZ	0.90	1.00	0.900	67	96	48	36	45
xx637PTA901MSZ	0.90	1.34	1.20	73	104	62	30	40
xx641PTA901MSZ	0.90	1.60	1.44	60	85	69	25	35
xx645PTA901MSZ	0.90	1.82	1.70	69	98	73	23	30
xx648PTA901MSZ	0.90	2.15	1.94	71	102	87	21	27
xx630PTA102MSZ	1.0	0.740	0.630	342	488	29	41	54
xx632PTA102MSZ	1.0	1.00	0.900	57	81	42	36	45
xx637PTA102MSZ	1.0	1.34	1.20	68	97	56	30	40
xx641PTA102MSZ	1.0	1.60	1.44	53	75	64	25	35
xx645PTA102MSZ	1.0	1.82	1.70	69	98	68	23	30
xx648PTA102MSZ	1.0	2.15	1.94	62	88	70	21	27
xx630PTA122MSZ	1.2	0.740	0.630	57	81	28	41	54
xx632PTA122MSZ	1.2	1.00	0.900	48	69	37	36	45
xx637PTA122MSZ	1.2	1.34	1.20	57	81	49	30	40
xx641PTA122MSZ	1.2	1.60	1.44	51	73	54	25	35
xx645PTA122MSZ	1.2	1.82	1.70	57	82	58	23	30
xx648PTA122MSZ	1.2	2.15	1.94	55	78	63	21	27
xx630PTA202MSZ	2.0	0.740	0.630	28	40	16	41	54
xx632PTA202MSZ	2.0	1.00	0.900	34	48	27	36	45
xx637PTA202MSZ	2.0	1.34	1.20	39	56	37	30	40
xx641PTA202MSZ	2.0	1.60	1.44	36	51	35	25	35
xx645PTA202MSZ	2.0	1.82	1.70	43	61	40	23	30
xx648PTA202MSZ	2.0	2.15	1.94	43	62	45	21	27
xx645PTA362MSZ	3.6	1.82	1.70	27	38	25	23	30
xx645PTA402MSZ	4.0	1.82	1.70	25	35	20	23	30
xx648PTA402MSZ	4.0	2.15	1.94	25	36	25	21	27
xx645PTA472MSZ	4.7	1.82	1.70	21	30	18	23	30



Dimensions

Series	A max	B max	C max
630PTA	0.79 20,07	0.77 19,56	0.34 8,64
632PTA	0.79 20,07	0.77 19,56	0.37 9,40
637PTA	0.79 20,07	0.77 19,56	0.42 10,67
641PTA	0.79 20,07	0.77 19,56	0.47 11,94
645PTA	0.79 20,07	0.77 19,56	0.51 12,95
648PTA	0.79 20,07	0.77 19,56	0.55 13,97

ST 485PKA Unshielded



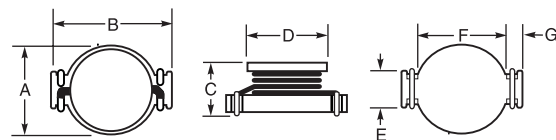
Part number	Inductance (µH)	Percent Tolerance	DCR max (mOhms)	SRF (MHz)		Isat (A)		
				min	typ	30% drop	20°C rise	40°C rise
xx485PKA102MSZ	1.0	20	50	110.5	130	2.9	1.90	2.70
xx485PKA152MSZ	1.5	20	60	97.8	115	2.6	1.90	2.65
xx485PKA222MSZ	2.2	20	70	85.0	100	2.3	1.85	2.55
xx485PKA272MSZ	2.7	20	80	63.8	75	2.1	1.80	2.45
xx485PKA332MSZ	3.3	20	80	59.5	70	2.0	1.60	2.20
xx485PKA472MSZ	4.7	20	90	42.5	50	1.5	1.40	1.90
xx485PKA682MSZ	6.8	20	130	38.3	45	1.2	1.20	1.60
xx485PKA822MSZ	8.2	20	160	34.0	40	1.15	1.10	1.55
xx485PKA103MSZ	10	20	160	29.8	35	1.10	1.10	1.50
xx485PKA153MSZ	15	20	230	25.5	30	0.90	0.90	1.25
xx485PKA223_SZ	22	20,10	370	17.0	20	0.70	0.75	0.95
xx485PKA333_SZ	33	20,10	510	12.8	15	0.58	0.60	0.80
xx485PKA473_SZ	47	20,10	640	11.9	14	0.50	0.52	0.70
xx485PKA683_SZ	68	20,10	860	9.4	11	0.40	0.44	0.60
xx485PKA104_SZ	100	20,10	1270	7.7	9.0	0.31	0.37	0.50
xx485PKA154_SZ	150	20,10	2000	5.1	6.0	0.27	0.28	0.39
xx485PKA224_SZ	220	20,10	3110	4.7	5.5	0.22	0.23	0.31
xx485PKA334_SZ	330	20,10	3800	4.3	5.0	0.18	0.22	0.30
xx485PKA474_SZ	470	20,10	5600	3.4	4.0	0.16	0.20	0.26
xx485PKA684_SZ	680	20,10	9200	2.6	3.0	0.14	0.14	0.19
xx485PKA105_SZ	1000	20,10	13800	1.7	2.0	0.10	0.11	0.15

AT AE MS ML 563PKA Unshielded



Part number	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A)		
		nom	max	min	typ	30% drop	20°C rise	40°C rise
xx563PKA301MSZ	0.3	2.6	3.0	200	238	17.0	8.0	12.0
xx563PKA901MSZ	0.9	5.1	6.0	122	153	10.9	6.1	8.8
xx563PKA122MSZ	1.2	5.1	7.0	100	125	9.3	3.4	5.6
xx563PKA182MSZ	1.8	7.7	9.0	86	108	8.1	3.2	5.0
xx563PKA222MSZ	2.2	6.8	10	74	92	7.2	2.9	4.5
xx563PKA272MSZ	2.7	9.4	11	63	79	6.4	2.7	4.2
xx563PKA332MSZ	3.3	11.1	13	57	71	6.0	2.4	4.0
xx563PKA392MSZ	3.9	15.3	18	54	68	5.5	2.4	4.0
xx563PKA472MSZ	4.7	20.4	24	46	57	4.8	2.4	3.7
xx563PKA562MSZ	5.6	21.3	25	43	53	4.4	2.2	3.3
xx563PKA682MSZ	6.8	25.5	30	38	48	4.0	2.2	3.3
xx563PKA822MSZ	8.2	29.8	35	35	44	3.7	2.2	3.2
xx563PKA103MSZ	10	32.3	38	30	38	3.4	2.1	3.1
xx563PKA123MSZ	12	40.8	48	26	33	3.1	1.7	2.7
xx563PKA153MSZ	15	49.3	58	25	31	2.8	1.9	2.6
xx563PKA183MSZ	18	59.5	70	21	27	2.6	1.9	2.5
xx563PKA223MSZ	22	72.3	85	20	25	2.3	1.8	2.4
xx563PKA273MSZ	27	85	100	19	24	2.1	1.3	1.9
xx563PKA333MSZ	33	109	128	16	20	1.9	1.3	1.8
xx563PKA393MSZ	39	116	136	14	18	1.7	1.3	1.8
xx563PKA473MSZ	47	146	172	12	15	1.5	1.1	1.5
xx563PKA563MSZ	56	170	200	11	14	1.4	0.9	1.3
xx563PKA683MSZ	68	221	260	10	13	1.3	0.82	1.2
xx563PKA823MSZ	82	264	310	9.5	12	1.2	0.81	1.2
xx563PKA104MSZ	100	306	360	8.3	10	1.1	0.80	1.1
xx563PKA124MSZ	120	384	452	8.3	10	0.98	0.68	0.90
xx563PKA154MSZ	150	432	508	7.0	8.7	0.86	0.63	0.87
xx563PKA184MSZ	180	525	618	6.0	7.5	0.80	0.54	0.76
xx563PKA224MSZ	220	618	727	5.3	6.6	0.65	0.53	0.73
xx563PKA274MSZ	270	819	963	4.6	5.8	0.62	0.43	0.62
xx563PKA334MSZ	330	935	1100	4.4	5.5	0.58	0.41	0.57
xx563PKA394MSZ	390	1105	1300	3.9	4.8	0.53	0.38	0.53
xx563PKA474MSZ	470	1360	1600	3.6	4.3	0.48	0.34	0.47

* When ordering, please replace underscore in part number with the proper tolerance code: M = 20%, K = 10%. Specify the version desired (e.g. ST485PKA223KSZ for a part with a 10% tolerance).



Dimensions

Series	A max	B max	C	D	E	F	G
563PKA	0.390 9,91	0.520 13,21	0.225 5,71	0.330 8,38	0.150 3,81	0.340 8,64	0.180 4,57

ST 563PKP Unshielded

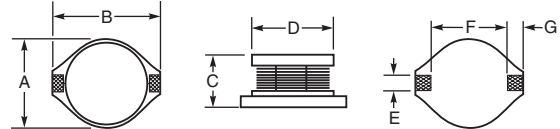


Partnumber	Inductance (µH)	Percent tolerance*	DCR max (mOhms)	SRF typ (MHz)	Isat (A) 30% drop	Irms(A) 40°C rise
xx563PKP102MLZ	1.0	20	9	100	9.0	6.8
xx563PKP152MLZ	1.5	20	10	90	8.0	6.4
xx563PKP222_LZ	2.2	20,10	12	80	7.0	6.1
xx563PKP332_LZ	3.3	20,10	15	65	6.4	5.4
xx563PKP472_LZ	4.7	20,10	18	45	5.4	4.8
xx563PKP682_LZ	6.8	20,10	26	38	4.6	4.4
xx563PKP103_LZ	10	20,10	38	30	3.8	3.9
xx563PKP153_LZ	15	20,10	46	27	3.0	3.1
xx563PKP223_LZ	22	20,10	85	19	2.3	2.7
xx563PKP333_LZ	33	20,10	100	15	2.0	2.1
xx563PKP473_LZ	47	20,10	140	12	1.6	1.8
xx563PKP683_LZ	68	20,10	200	10	1.4	1.5
xx563PKP104_LZ	100	20,10	280	9	1.2	1.3
xx563PKP154_LZ	150	20,10	400	6	1.0	1.0
xx563PKP224_LZ	220	20,10	610	5	0.80	0.80
xx563PKP334_LZ	330	20,10	1020	4.5	0.60	0.60
xx563PKP474_LZ	470	20,10	1270	3.5	0.50	0.50
xx563PKP684_LZ	680	20,10	2020	2.5	0.40	0.40
xx563PKP105_LZ	1000	20,10	3000	2.0	0.30	0.30
xx563PKP155_LZ	1500	20,10	4490	1.7	0.29	0.27
xx563PKP335_LZ	3300	20,10	8970	1.1	0.19	0.17

* When ordering, please replace underscore in part number with the proper tolerance code: M = 20%, K = 10%. Specify the version desired (e.g. ST563PKP472KLZ for a low temperature storage part with a 10% tolerance).

Which version of these parts should you use?

AE	Passes NASA low outgassing specifications Extended temperature applications: -55 up to 155°C Ambient Leach resistant tin-lead, gold and other terminations available.
MS	Extended temperature applications: -55 up to 155°C Ambient Leach resistant tin-lead terminations
ML	Extended temperature applications: -55 up to 155°C Ambient
AT	Extended temperature applications: Down to -60°C, up to +300°C
ST	Low temperature storage: -55°C Extended qualification



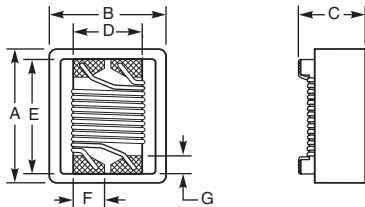
Dimensions

Series	A max	B max	C	D	E	F	G
485PKA	0.175 4,45	0.260 6,60	0.115 2,92	0.155 3,94	0.090 2,29	0.170 4,32	0.040 1,02
563PKP	0.370 9,40	0.510 12,95	0.205 5,21	0.330 8,38	0.100 2,54	0.300 7,62	0.100 2,54

Coupled Inductors / Transformers

ST 450PHD Coupled

Partnumber	Inductance ±10% (µH)	Q min	DCR max (Ohms)	SRF min (MHz)	Isat (A) 10% drop	Imax (A)
xx450PHD102MLZ	1.0	38	0.20	285	2.4	2.1
xx450PHD222MLZ	2.2	29	0.33	175	1.5	1.2
xx450PHD472MLZ	4.7	43	0.41	102	1.5	1.0
xx450PHD103MLZ	10	35	0.74	74	0.80	0.78
xx450PHD153MLZ	15	37	0.96	65	0.70	0.71
xx450PHD223MLZ	22	38	1.84	54	0.50	0.53
xx450PHD393MLZ	39	39	2.60	5.7	0.45	0.42
xx450PHD473MLZ	47	40	2.66	4.8	0.40	0.39

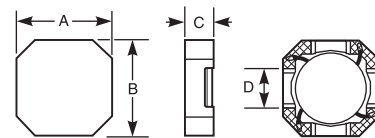


Dimensions

Series	A max	B max	C max	D	E	F	G
450PHD	0.231 5,87	0.196 4,98	0.150 3,81	0.100 2,54	0.178 4,52	0.04 1,02	0.03 0,76

AE ML MS 416PJD Coupled

Partnumber	Inductance (µH)	DCR max (Ohms)	SRF min (MHz)	Isat (A) 30% drop	Irms (A)	
					both windings	one winding
xx416PJD331NSZ	0.33±30%	0.042	255	5.6	2.13	3.01
xx416PJD561NSZ	0.56±30%	0.087	185	3.9	1.48	2.09
xx416PJD821NSZ	0.82±30%	0.100	130	3.4	1.38	1.95
xx416PJD152NSZ	1.5±30%	0.185	86	2.91	1.01	1.43
xx416PJD222NSZ	2.2±30%	0.235	70	2.50	0.90	1.27
xx416PJD332NSZ	3.3±30%	0.320	48	2.00	0.77	1.09
xx416PJD472MSZ	4.7±20%	0.500	39	1.80	0.62	0.87
xx416PJD562MSZ	5.6±20%	0.620	32	1.60	0.55	0.78
xx416PJD682MSZ	6.8±20%	0.530	31	1.63	0.60	0.85
xx416PJD822MSZ	8.2±20%	0.600	29	1.30	0.56	0.80
xx416PJD103MSZ	10±20%	0.750	25	1.10	0.50	0.71
xx416PJD153MSZ	15±20%	1.13	21	0.94	0.41	0.58
xx416PJD223MSZ	22±20%	1.63	15	0.84	0.34	0.48
xx416PJD333MSZ	33±20%	1.83	12	0.58	0.32	0.46
xx416PJD473MSZ	47±20%	2.52	8.8	0.40	0.27	0.39
xx416PJD683MSZ	68±20%	3.23	7.8	0.37	0.24	0.34
xx416PJD823MSZ	82±20%	3.66	7.3	0.29	0.23	0.32
xx416PJD104MSZ	100±20%	4.75	6.1	0.29	0.20	0.28
xx416PJD124MSZ	120±20%	5.54	5.3	0.27	0.19	0.26
xx416PJD154MSZ	150±20%	6.90	4.6	0.27	0.17	0.23
xx416PJD184MSZ	180±20%	8.75	4.1	0.23	0.15	0.21
xx416PJD224MSZ	220±20%	11.24	3.3	0.17	0.13	0.18
xx416PJD334MSZ	330±20%	17.00	2.8	0.16	0.11	0.15



Dimensions

Series	A max	B max	C	D
416PJD	0.155 3,94	0.155 3,94	0.043 1,1	0.060 1,52

MS ML 412PJD Shielded

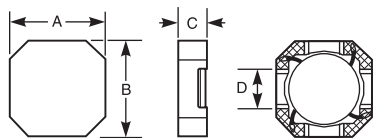
Part number	Inductance (µH)	DCR max (Ohms)	SRF typ (MHz)	Leakage L (µH)	Isat (A) 30% drop	Irms (A)	
						both windings	one winding
xx412PJD391NLZ	0.39±30%	0.071	289	0.08	3.4	1.45	2.05
xx412PJD561MLZ	0.56±20%	0.079	235	0.08	2.8	1.37	1.94
xx412PJD102MLZ	1.0±20%	0.129	160	0.09	2.2	1.08	1.52
xx412PJD152MLZ	1.5±20%	0.204	140	0.11	1.8	0.86	1.2
xx412PJD182MLZ	1.8±20%	0.273	135	0.13	1.6	0.78	1.1
xx412PJD222MLZ	2.2±20%	0.3	110	0.14	1.6	0.75	1.05
xx412PJD332MLZ	3.3±20%	0.337	90	0.16	1.2	0.67	0.94
xx412PJD472MLZ	4.7±20%	0.503	79	0.18	0.88	0.54	0.76
xx412PJD682MLZ	6.8±20%	0.622	58	0.22	0.79	0.49	0.69
xx412PJD103MLZ	10±20%	1.04	48	0.28	0.6	0.38	0.53
xx412PJD153MLZ	15±20%	1.42	35	0.37	0.51	0.32	0.46
xx412PJD183MLZ	18±20%	1.55	33	0.42	0.48	0.31	0.44
xx412PJD223MLZ	22±20%	1.89	30	0.48	0.44	0.28	0.4
xx412PJD333MLZ	33±20%	2.84	23	0.63	0.36	0.23	0.32
xx412PJD473MLZ	47±20%	4.03	17	0.81	0.3	0.19	0.27
xx412PJD683MLZ	68±20%	6.11	14	1.13	0.26	0.16	0.22
xx412PJD104MLZ	100±20%	8.54	11	1.5	0.22	0.13	0.19
xx412PJD124MLZ	120±20%	9.23	9	1.76	0.2	0.13	0.18
xx412PJD154MLZ	150±20%	12.4	8	2.22	0.18	0.11	0.16
xx412PJD184MLZ	180±20%	15.32	7.5	2.79	0.17	0.1	0.14
xx412PJD224MLZ	220±20%	18.56	6	3.56	0.15	0.09	0.13
xx412PJD334MLZ	330±20%	27.7	5	5.18	0.12	0.07	0.1

ML ST 466PJD Coupled

Part number	Inductance (µH)	DCR max (Ohms)	SRF typ (MHz)	Leakage L (µH)	Isat (A) 30% drop	Irms (A)	
						both windings	one winding
xx466PJD102NLZ	1.0±30%	0.042	156	0.09	5.0	2.60	3.68
xx466PJD152MLZ	1.5±20%	0.048	123	0.09	4.3	2.20	3.11
xx466PJD222MLZ	2.2±20%	0.067	78.0	0.10	3.4	2.15	3.04
xx466PJD332MLZ	3.3±20%	0.077	65.0	0.10	2.8	1.85	2.62
xx466PJD472MLZ	4.7±20%	0.111	53.0	0.11	2.2	1.45	2.05
xx466PJD562MLZ	5.6±20%	0.125	48.0	0.11	2.1	1.35	1.91
xx466PJD682MLZ	6.8±20%	0.159	43.0	0.12	1.9	1.20	1.70
xx466PJD103MLZ	10±20%	0.210	31.0	0.13	1.3	1.05	1.48
xx466PJD153MLZ	15±20%	0.298	25.0	0.15	1.4	0.85	1.20
xx466PJD223MLZ	22±20%	0.452	19.0	0.17	1.1	0.70	0.99
xx466PJD333MLZ	33±20%	0.565	15.0	0.20	0.85	0.60	0.85
xx466PJD473MLZ	47±20%	0.806	12.6	0.24	0.72	0.50	0.71
xx466PJD683MLZ	68±20%	1.13	10.0	0.29	0.55	0.46	0.64
xx466PJD104MLZ	100±20%	1.79	8.32	0.37	0.56	0.35	0.49
xx466PJD154MLZ	150±20%	2.43	6.80	0.46	0.45	0.31	0.43
xx466PJD224MLZ	220±20%	3.30	5.55	.54	0.36	0.26	0.37
xx466PJD334MLZ	330±20%	5.36	4.05	0.65	0.32	0.20	0.28
xx466PJD474MLZ	470±20%	7.51	3.35	0.76	0.26	0.17	0.23
xx466PJD684MLZ	680±20%	10.8	2.78	0.89	0.21	0.14	0.19
xx466PJD105MLZ	1000±20%	16.5	2.24	1.20	0.17	0.11	0.15

ST 512PJD Coupled

Part number	Inductance ±20% (µH)	DCR max (Ohms)	SRF typ (MHz)	Leakage L (µH)	Isat (A) 30% drop	Irms (A)	
						both windings	one winding
xx512PJD682MLZ	6.8	0.108	31	0.10	3.12	1.60	2.26
xx512PJD103MLZ	10	0.140	26	0.12	2.80	1.40	1.98
xx512PJD223MLZ	22	0.300	15	0.15	1.73	0.85	1.20
xx512PJD473MLZ	47	0.620	9.7	0.21	0.99	0.60	0.85
xx512PJD474MLZ	470	3.50	3.0	0.61	0.23	0.25	0.35
xx512PJD105MLZ	1000	7.00	1.9	1.05	0.15	0.15	0.21
xx512PJD155MLZ	1500	10.8	1.5	1.70	0.13	0.14	0.20
xx512PJD205MLZ	2000	16.0	1.3	2.10	0.12	0.11	0.16



Dimensions

Series	A max	B max	C	D
412PJD	0.121 3.08	0.121 3.08	0.059 1.5	0.039 0.99
466PJD	0.189 4.80	0.189 4.80	0.035 0.9	0.114 2.90
512PJD	0.236 6.00	0.236 6.00	0.138 3.5	0.079 2.00

ST 526PND Coupled

Part number	Inductance ±20% (µH)	DCR max (Ohms)	SRF typ (MHz)	Leakage L (µH)	Isat (A) 30% drop	Irms (A)	
						both windings	one winding
xx526PND252MLZ	2.5	0.033	55	0.14	6.3	2.17	3.06
xx526PND332MLZ	3.3	0.037	43	0.09	5.4	2.05	2.89
xx526PND472MLZ	4.7	0.051	35	0.11	4.6	1.74	2.46
xx526PND562MLZ	5.6	0.063	32	0.09	4.2	1.57	2.22
xx526PND682MLZ	6.8	0.070	30	0.14	3.9	1.49	2.10
xx526PND822MLZ	8.2	0.075	27	0.25	3.5	1.44	2.03
xx526PND103MLZ	10	0.100	22	0.30	3.0	1.24	1.76
xx526PND123MLZ	12	0.120	20	0.36	2.7	1.14	1.61
xx526PND153MLZ	15	0.130	18	0.49	2.4	1.09	1.54
xx526PND183MLZ	18	0.170	15	0.16	2.3	0.95	1.35
xx526PND223MLZ	22	0.220	13.5	0.20	2.1	0.84	1.19
xx526PND273MLZ	27	0.250	12.0	0.20	1.9	0.79	1.11
xx526PND333MLZ	33	0.270	11.0	0.15	1.7	0.76	1.07
xx526PND393MLZ	39	0.380	10.0	0.70	1.5	0.64	0.90
xx526PND473MLZ	47	0.420	9.5	0.30	1.4	0.61	0.86
xx526PND563MLZ	56	0.460	8.7	0.51	1.3	0.58	0.82
xx526PND683MLZ	68	0.600	7.3	0.51	1.2	0.51	0.72
xx526PND823MLZ	82	0.680	6.2	1.17	1.1	0.48	0.67
xx526PND104MLZ	100	0.770	5.5	0.96	0.98	0.45	0.63
xx526PND124MLZ	120	1.03	4.5	0.61	0.90	0.39	0.55
xx526PND154MLZ	150	1.35	4.0	0.54	0.80	0.34	0.48
xx526PND184MLZ	180	1.52	3.8	0.75	0.73	0.32	0.45
xx526PND224MLZ	220	1.72	3.5	1.43	0.66	0.30	0.42
xx526PND274MLZ	270	2.41	3.3	1.56	0.60	0.25	0.36
xx526PND334MLZ	330	2.70	3.0	1.65	0.54	0.24	0.34
xx526PND394MLZ	390	3.05	2.8	4.73	0.50	0.23	0.32
xx526PND474MLZ	470	4.00	2.6	5.50	0.46	0.20	0.28
xx526PND564MLZ	560	4.43	2.5	4.85	0.42	0.19	0.26
xx526PND684MLZ	680	5.00	2.3	7.59	0.38	0.18	0.25
xx526PND824MLZ	820	6.80	2.2	8.01	0.35	0.15	0.21
xx526PND105MLZ	1000	7.80	2.0	8.69	0.31	0.14	0.20

AE MS ML 590PND Coupled

Part number	Inductance (µH)	DCR (Ohms)		SRF (MHz)		Isat (A) 30% drop	Irms (A)	
		nom	max	min	typ		both windings	one winding
xx590PND332MSZ	3.3±20%	0.018	0.020	41.0	52.0	14.10	3.60	6.10
xx590PND472MSZ	4.7±20%	0.032	0.036	30.0	38.0	11.08	3.16	4.47
xx590PND562MSZ	5.6±20%	0.036	0.040	24.0	30.0	9.84	3.00	4.24
xx590PND682MSZ	6.8±20%	0.043	0.048	22.0	27.0	8.64	2.75	3.88
xx590PND822MSZ	8.2±20%	0.047	0.052	21.0	26.0	7.98	2.63	3.72
xx590PND103MSZ	10±20%	0.054	0.060	18.0	22.0	6.88	2.45	3.46
xx590PND123MSZ	12±20%	0.067	0.074	16.0	20.0	6.70	2.21	3.12
xx590PND153MSZ	15±20%	0.077	0.085	14.4	18.0	5.80	2.06	2.92
xx590PND183MSZ	18±20%	0.087	0.097	13.0	16.0	5.68	1.93	2.73
xx590PND223MSZ	22±20%	0.104	0.116	12.0	15.0	5.02	1.76	2.49
xx590PND273MSZ	27±20%	0.112	0.124	10.0	13.0	4.50	1.70	2.41
xx590PND333MSZ	33±20%	0.121	0.134	10.0	12.4	4.14	1.64	2.32
xx590PND393MSZ	39±20%	0.128	0.142	9.6	12.0	3.82	1.59	2.25
xx590PND473MSZ	47±20%	0.157	0.174	9.3	11.6	3.40	1.44	2.03
xx590PND563MSZ	56±20%	0.178	0.198	8.4	10.5	3.14	1.35	1.91
xx590PND683MSZ	68±20%	0.194	0.216	8.0	10.0	2.88	1.29	1.83
xx590PND823MSZ	82±20%	0.247	0.274	6.9	8.6	2.60	1.15	1.62
xx590PND104MSZ	100±20%	0.290	0.322	6.2	7.8	2.38	1.06	1.50
xx590PND124KSZ	120±10%	0.376	0.418	5.5	6.8	2.04	0.93	1.31
xx590PND154KSZ	150±10%	0.428	0.476	5.1	6.4	1.92	0.87	1.23
xx590PND184KSZ	180±10%	0.482	0.536	4.9	6.1	1.78	0.82	1.16
xx590PND224KSZ	220±10%	0.622	0.691	4.4	5.5	1.60	0.72	1.02
xx590PND274KSZ	270±10%	0.725	0.806	3.4	4.3	1.40	0.67	0.95
xx590PND334KSZ	330±10%	0.981	1.09	3.2	4.0	1.26	0.57	0.81
xx590PND394KSZ	390±10%	1.08	1.20	2.9	3.6	1.23	0.55	0.77
xx590PND474KSZ	470±10%	1.43	1.59	2.4	3.0	1.09	0.48	0.67
xx590PND564KSZ	560±10%	1.63	1.81	2.2	2.8	0.948	0.45	0.63
xx590PND684KSZ	680±10%	1.85	2.06	2.1	2.6	0.874	0.42	0.59
xx590PND824KSZ	820±10%	2.39	2.65	2.0	2.5	0.802	0.37	0.52
xx590PND105KSZ	1000±10%	2.75	3.06	1.9	2.4	0.728	0.34	0.49

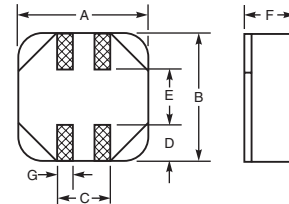
AE MS ML 612PND Coupled



Part number	Inductance (µH)	DCR (Ohms)		SRF (MHz)		Isat (A) 30% drop		Irms (A)	
		nom	max	min	typ	both windings	one winding		
xx612PND472MSZ	4.7±20%	0.036	0.040	26.0	33.0	16.36	3.16	4.47	
xx612PND562MSZ	5.6±20%	0.041	0.046	24.0	30.0	15.74	2.87	4.06	
xx612PND682MSZ	6.8±20%	0.043	0.048	18.0	23.0	14.20	2.81	3.98	
xx612PND822MSZ	8.2±20%	0.050	0.055	16.0	20.0	12.20	2.76	3.90	
xx612PND103MSZ	10±20%	0.052	0.058	14.0	17.0	10.66	2.56	3.62	
xx612PND123MSZ	12±20%	0.056	0.062	12.0	15.0	9.74	2.48	3.50	
xx612PND153MSZ	15±20%	0.065	0.072	10.0	13.0	9.03	2.30	3.25	
xx612PND183MSZ	18±20%	0.072	0.080	9.6	12.0	7.86	2.18	3.08	
xx612PND223MSZ	22±20%	0.086	0.096	8.8	11.0	7.26	1.99	2.81	
xx612PND273MSZ	27±20%	0.108	0.120	8.0	10.0	7.02	1.78	2.52	
xx612PND333MSZ	33±20%	0.135	0.150	7.6	9.5	6.52	1.59	2.25	
xx612PND393MSZ	39±20%	0.145	0.161	6.8	8.5	5.60	1.54	2.18	
xx612PND473MSZ	47±20%	0.162	0.180	6.0	7.5	4.60	1.45	2.05	
xx612PND563MSZ	56±20%	0.171	0.190	5.6	7.0	4.50	1.41	2.00	
xx612PND683MSZ	68±20%	0.189	0.210	5.2	6.5	4.32	1.35	1.90	
xx612PND823MSZ	82±20%	0.252	0.280	4.0	5.0	4.02	1.16	1.65	
xx612PND104MSZ	100±20%	0.270	0.300	3.6	4.5	3.46	1.13	1.59	
xx612PND124KSZ	120±10%	0.369	0.410	3.4	4.3	3.16	0.96	1.36	
xx612PND154KSZ	150±10%	0.414	0.460	3.3	4.1	2.70	0.91	1.29	
xx612PND184KSZ	180±10%	0.459	0.510	3.2	4.0	2.58	0.86	1.22	
xx612PND224KSZ	220±10%	0.621	0.690	2.7	3.4	2.28	0.74	1.05	
xx612PND274KSZ	270±10%	0.810	0.900	2.5	3.1	2.10	0.65	0.92	
xx612PND334KSZ	330±10%	0.918	1.02	2.3	2.9	1.84	0.61	0.86	
xx612PND394KSZ	390±10%	1.01	1.12	2.2	2.7	1.70	0.58	0.82	
xx612PND474KSZ	470±10%	1.38	1.53	1.8	2.2	1.60	0.50	0.70	
xx612PND564KSZ	560±10%	1.52	1.69	1.6	2.0	1.46	0.47	0.67	
xx612PND684KSZ	680±10%	2.06	2.29	1.4	1.7	1.22	0.41	0.58	
xx612PND824KSZ	820±10%	2.30	2.55	1.1	1.4	1.18	0.39	0.55	
xx612PND105KSZ	1000±10%	2.58	2.87	1.0	1.3	1.05	0.37	0.52	

Which version of these parts should you use?

AE	Passes NASA low outgassing specifications Extended temperature applications: -55 up to 155°C Ambient Leach resistant tin-lead, gold and other terminations available.
MS	Extended temperature applications: -55 up to 155°C Ambient Leach resistant tin-lead terminations
ML	Extended temperature applications: -55 up to 155°C Ambient
ST	Low temperature storage: -55°C
CP	Extended qualification



Dimensions

Series	A max	B max	C	D	E	F	G
526PND	0.295 7,5	0.295 7,5	0.091 2,3	0.063 1,6	0.150 3,8	0.181 4,6	0.028 0,7
590PND	0.484 12,3	0.484 12,3	0.197 5,0	0.138 3,5	0.197 5,0	0.24 6,0	0.059 1,5
612PND	0.484 12,3	0.484 12,3	0.197 5,0	0.138 3,5	0.197 5,0	0.317 8,05	0.059 1,5

Outgassing Compliant Power Magnetics

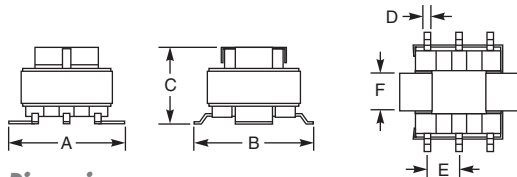
The CP-N0530 parts are designed for use from 50 kHz to 1 MHz to sense continuous currents up to 10 Amps. Different pinouts are offered to meet the requirements of different applications. Each series is available in eight different turns ratios. They offer low primary DC resistance and 500 Vac isolation.

The CP-N0531 gate drive transformers are designed for high switching speed, transformer coupled MOSFET and IGBT gate drive circuits with operating frequencies from 50 kHz to 2 MHz.

CP-N0530 Current Sensors

Part number CP-N0530-	Turns ratio pri:sec	Inductance min (µH)	DCR max (Ohms)		Sensed current max (A)	Terminating resistor (Ohms)	Volt-time product (V-µsec)
			primary	secondary			
020xSZ	1:20	81	0.0007	0.400	10	2.0	16
030xSZ	1:30	180	0.0007	0.870	10	3.0	24
040xSZ	1:40	320	0.0007	1.14	10	4.0	32
050xSZ	1:50	500	0.0007	1.50	10	5.0	41
060xSZ	1:60	730	0.0007	1.98	10	6.0	49
070xSZ	1:70	980	0.0007	4.75	10	7.0	57
100xSZ	1:100	2000	0.0007	5.50	10	10.0	81
125xSZ	1:125	3000	0.0007	6.50	10	12.5	101

x Visit web site to determine which pinout meets your requirement

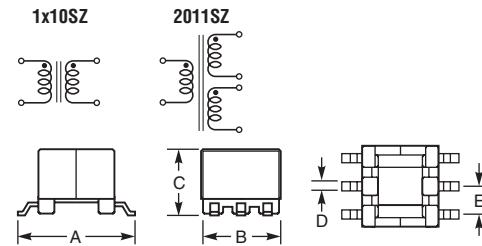


Dimensions

Series	A max	B max	C max	D	Ecen	F
CP-N0530	0.315 8,0	0.32 8,13	0.209 5,3	0.023 0,6	0.073 1,85	0.079 2,0

CP-N0531 Gate Drive Transformers

Part number CP-N0531-	Turns ratio pri:sec	Primary L min (µH)	Leakage L max (µH)	DCR max (Ohms)		Volt-time product (V-µsec)	SRF min (MHz)	Capacitance pri to sec max (pF)
				pri	sec			
1010SZ	1:1	296.0	1.5	0.795	0.655	25.8	1.75	14.0
1510SZ	1.5:1	680.0	4.0	1.65	0.860	40.8	1.00	14.0
1011SZ	1:1:1	264.0	0.30	1.50	1.50;	24.5	2.50	95.0
2011SZ	2:1:1	330.0	0.60	1.40	0.650;	24.5	2.00	18.0
					0.790			



Dimensions

Series	A max	B max	C max	D	Ecen
CP-N0531	0.323 8,2	0.26 6,6	0.213 5,4	0.023 0,6	0.073 1,85

+200°C Extreme Temperature Components

Coilcraft CPS offers coils suitable for use in extremely high temperature applications. Manufactured with high grade materials and specifically designed for extreme temperatures, these parts can perform in environments unsuitable for many other coils. The air core inductors feature an extended temperature range (down to -60°C and up to +240°C), pass NASA low outgassing specifications, and have tin-lead terminations. Their flat top makes them suitable for automatic placement and reflow or vapor phase processing. Solder coated leads ensure reliable soldering. The power inductors have a temperature range of -55°C up to +200°C. The AT549RBT coil is suitable for down-hole applications and is designed for temperatures as high as 300°C.

AT 350/394RAT 200°C



Part number	Turns	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	Imax (A)
xx350RAT1N7KSZ	2	1.65	10	100	800	10.0	4.0	1.6
xx350RAT2N6JSZ	3	2.55	5	100	800	8.2	5.0	1.6
xx350RAT3N9_SZ	4	3.85	5,2	100	800	7.5	6.0	1.6
xx350RAT5N4_SZ	5	5.40	5,2	100	800	7.0	8.0	1.6
xx394RAT5N6_SZ	6	5.60	5,2	100	800	6.5	9.0	1.6
xx394RAT7N2_SZ	7	7.15	5,2	100	800	6.0	10	1.6
xx394RAT8N8_SZ	8	8.80	5,2	100	800	6.0	12	1.6
xx394RAT9N9_SZ	9	9.85	5,2	100	800	5.2	13	1.6
xx394RAT13N_SZ	10	12.55	5,2	100	800	4.6	14	1.6

AT 426/446RAT Low Profile 200°C



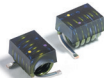
Part number	Turns	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	Imax (A)
xx426RAT5N5_SZ	3	5.5	5,2	115	250	5.0	2.6	4.0
xx426RAT9N0_SZ	4	9	5,2	120	250	4.0	3.4	4.0
xx426RAT13N_SZ	5	13	5,2	100	250	3.0	3.9	4.0
xx446RAT16N_SZ	7	16	5,2	110	250	3.0	5.2	4.0
xx446RAT18N_SZ	8	18	5,2	110	250	2.9	6.0	4.0
xx446RAT23N_SZ	9	23	5,2	110	250	2.6	6.8	4.0
xx446RAT27N_SZ	10	27	5,2	110	250	2.3	7.9	4.0

AT 439/470RAT 200°C



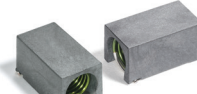
Part number	Turns	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhm)	Imax (A)
xx439RAT2N5KSZ	1	2.5	10	145	150	12.5	1.1	4.0
xx439RAT5N0_SZ	2	5.0	5,2	140	150	6.5	1.8	4.0
xx439RAT8N0_SZ	3	8.0	5,2	140	150	5.0	2.6	4.0
xx439RAT13N_SZ	4	12.5	5,2	137	150	3.3	3.4	4.0
xx439RAT19N_SZ	5	18.5	5,2	132	150	2.5	3.9	4.0
xx470RAT18N_SZ	6	17.5	5,2	100	150	2.2	4.5	4.0
xx470RAT22N_SZ	7	22	5,2	102	150	2.1	5.2	4.0
xx470RAT28N_SZ	8	28	5,2	105	150	1.8	6.0	4.0
xx470RAT36N_SZ	9	35.5	5,2	112	150	1.5	6.8	4.0
xx470RAT43N_SZ	10	43	5,2	106	150	1.2	7.9	4.0

AT 475RAT 200°C

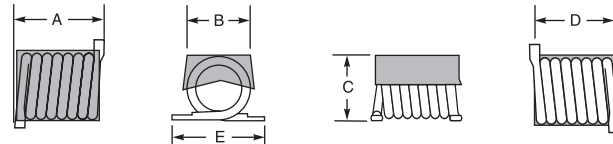


Part number	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	Imax (A)
xx475RAT22N_SZ	22	5,2	100	150	3.2	4.2	3.0
xx475RAT27N_SZ	27	5,2	100	150	2.7	4.0	3.5
xx475RAT33N_SZ	33	5,2	100	150	2.5	4.8	3.0
xx475RAT39N_SZ	39	5,2	100	150	1.8	4.4	3.0
xx475RAT47N_SZ	47	5,2	100	150	2.1	5.6	3.0
xx475RAT56N_SZ	56	5,2	100	150	1.5	6.2	3.0
xx475RAT68N_SZ	68	5,2	100	150	1.5	8.2	2.5
xx475RAT82N_SZ	82	5,2	100	150	1.3	9.4	2.5
xx475RATR10_SZ	100	5,2	100	150	1.2	12.3	1.7
xx475RATR12_SZ	120	5,2	100	150	1.1	17.3	1.5
xx475RATR15_SZ	150	5,2	100	150	0.75	33.0	1.2

AT 536RAT 200°C



Part number	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	Imax (A)
xx536RAT90N_SZ	90	5,2	95	50	1.140	15	3.5
xx536RATR11_SZ	111	5,2	87	50	1.020	15	3.5
xx536RATR13_SZ	130	5,2	87	50	0.900	20	3.0
xx536RATR17_SZ	169	5,2	95	50	0.875	25	3.0
xx536RATR21_SZ	206	5,2	95	50	0.800	30	3.0
xx536RATR22_SZ	222	5,2	92	50	0.730	35	3.0
xx536RATR25_SZ	246	5,2	95	50	0.685	35	3.0
xx536RATR31_SZ	307	5,2	95	50	0.660	35	3.0
xx536RATR38_SZ	380	5,2	95	50	0.590	50	2.5
xx536RATR42_SZ	422	5,2	95	50	0.540	60	2.5
xx536RATR49_SZ	491	5,2	95	50	0.535	65	2.0
xx536RATR54_SZ	538	5,2	87	50	0.490	90	2.0



Dimensions

Series	A max	B	C max	D	E max
350RAT	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
394RAT	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
426RAT	0.155 3,94	0.135 3,43	0.079 2,01	0.115±0.010 2,92±0,25	0.165 4,19
439RAT	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
446RAT	0.270 6,86	0.135 3,43	0.079 2,01	0.230±0.015 5,84±0,25	0.165 4,19
470RAT	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
475RAT	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
536RAT	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

* When ordering, please replace underscore in part number with the proper tolerance code: G = 2%, J = 5%. Specify the version desired (e.g. AT446RAT27NGSZ for an ultra high-temperature part with a 2% tolerance).

AT 392RAS 240°C

Part number	L (nH)	Percent tolerance*	Q min	Test freq (MHz)	SRF min (GHz)	DCR max (mOhms)	Imax (A)
xx392RAS8N1_SZ	8.1	5,2	100	400	4.0	6.0	4.0
xx392RAS12N_SZ	12.1	5,2	100	400	3.4	7.0	4.0
xx392RAS17N_SZ	16.6	5,2	100	400	2.9	8.0	4.0
xx392RAS22N_SZ	21.5	5,2	100	400	2.6	9.0	4.0
xx392RAS27N_SZ	27.3	5,2	100	400	2.3	10.0	4.0

Each value is a different length. Check www.coilcraft-cps for details.

Dimensions

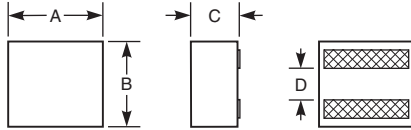
Series	A	B	C
392RAS	0.058 - 0.117 1,473 - 2,972	0.084 2,134	0.072 1,829

AT 524PYA Shielded 200°C



Partnumber	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A) 30% drop		I _{rms} (A)*	
		nom	max	min	typ	20°C rise	40°C rise	20°C rise	40°C rise
xx524PYA681MSZ	0.68	3.10	3.41	47	59	23	14.3	18.8	
xx524PYA102MSZ	1.0	3.81	4.19	37	47	21	12.8	17.3	
xx524PYA182MSZ	1.8	5.30	5.83	28	36	18.1	10.5	13.5	
xx524PYA222MSZ	2.2	6.00	6.60	24	31	16.4	9.8	12.8	
xx524PYA302MSZ	3.0	7.45	8.19	20	26	14.6	9.0	12.0	
xx524PYA472MSZ	4.7	13.10	14.40	21	10.5	5.3	7.5		
xx524PYA562MSZ	5.6	14.46	15.90	16	20	9.9	5.3	7.5	
xx524PYA682MSZ	6.8	18.90	20.80	14	18	9.2	5.3	6.8	
xx524PYA822MSZ	8.2	24.00	26.40	12	16	8.4	4.5	6.0	
xx524PYA103MSZ	10	27.00	29.82	11	14	7.6	3.8	5.3	
xx524PYA153MSZ	15	39.77	43.75	8.8	11	5.8	3.4	4.5	
xx524PYA223MSZ	22	55.12	60.63	7.2	9	5.6	2.7	3.8	

* I_{rms} ratings for AT version are lower than shown here. See web site for actual current ratings



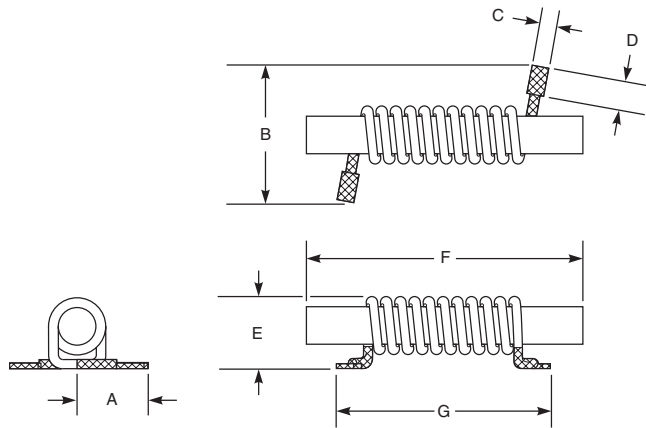
Dimensions

Series	A max	B max	C max	D
524PYA	0.258 6,56	0.250 6,36	0.242 6,10	0.110 2,79

AT 549RBT 300°C



Partnumber	Inductance ±20% (µH)	DCR max (mOhms)	SRF min (MHz)	I _{max} (A)
xx549RBT102MLZ	1.0	15.0	800	1.0



Dimensions

Series	A	B max	C	D	E max	F max	G
549RBT	0.15 3,81	0.30 7,62	0.026 0,66	0.055 1,40	0.170 4,32	0.600 15,24	0.505 12,83

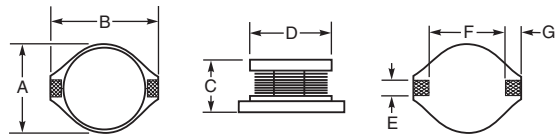
Which version of these parts should you use?

AT Extended temperature applications: Down to -60°C, up to +300°C

AT 563PKA Unshielded 200°C



Partnumber	Inductance ±20% (µH)	DCR (mOhms)		SRF (MHz)		Isat (A) 30% drop		I _{rms} (A)	
		nom	max	min	typ	20°C rise	40°C rise	20°C rise	40°C rise
xx563PKA301MSZ	0.3	2.6	3.0	200	238	17.0	8.0	12.0	
xx563PKA901MSZ	0.9	5.1	6.0	122	153	10.9	6.1	8.8	
xx563PKA122MSZ	1.2	5.1	7.0	100	125	9.3	3.4	5.6	
xx563PKA182MSZ	1.8	7.7	9.0	86	108	8.1	3.2	5.0	
xx563PKA222MSZ	2.2	6.8	10	74	92	7.2	2.9	4.5	
xx563PKA272MSZ	2.7	9.4	11	63	79	6.4	2.7	4.2	
xx563PKA332MSZ	3.3	11.1	13	57	71	6.0	2.4	4.0	
xx563PKA392MSZ	3.9	15.3	18	54	68	5.5	2.4	4.0	
xx563PKA472MSZ	4.7	20.4	24	46	57	4.8	2.4	3.7	
xx563PKA562MSZ	5.6	21.3	25	43	53	4.4	2.2	3.3	
xx563PKA682MSZ	6.8	25.5	30	38	48	4.0	2.2	3.3	
xx563PKA822MSZ	8.2	29.8	35	35	44	3.7	2.2	3.2	
xx563PKA103MSZ	10	32.3	38	30	38	3.4	2.1	3.1	
xx563PKA123MSZ	12	40.8	48	26	33	3.1	1.7	2.7	
xx563PKA153MSZ	15	49.3	58	25	31	2.8	1.9	2.6	
xx563PKA183MSZ	18	59.5	70	21	27	2.6	1.9	2.5	
xx563PKA223MSZ	22	72.3	85	20	25	2.3	1.8	2.4	
xx563PKA273MSZ	27	85	100	19	24	2.1	1.3	1.9	
xx563PKA333MSZ	33	109	128	16	20	1.9	1.3	1.8	
xx563PKA393MSZ	39	116	136	14	18	1.7	1.3	1.8	
xx563PKA473MSZ	47	146	172	12	15	1.5	1.1	1.5	
xx563PKA563MSZ	56	170	200	11	14	1.4	0.9	1.3	
xx563PKA683MSZ	68	221	260	10	13	1.3	0.82	1.2	
xx563PKA823MSZ	82	264	310	9.5	12	1.2	0.81	1.2	
xx563PKA104MSZ	100	306	360	8.3	10	1.1	0.80	1.1	
xx563PKA124MSZ	120	384	452	8.3	10	0.98	0.68	0.90	
xx563PKA154MSZ	150	432	508	7.0	8.7	0.86	0.63	0.87	
xx563PKA184MSZ	180	525	618	6.0	7.5	0.80	0.54	0.76	
xx563PKA224MSZ	220	618	727	5.3	6.6	0.65	0.53	0.73	
xx563PKA274MSZ	270	819	963	4.6	5.8	0.62	0.43	0.62	
xx563PKA334MSZ	330	935	1100	4.4	5.5	0.58	0.41	0.57	
xx563PKA394MSZ	390	1105	1300	3.9	4.8	0.53	0.38	0.53	
xx563PKA474MSZ	470	1360	1600	3.6	4.3	0.48	0.34	0.47	



Dimensions

Series	A max	B max	C	D	E	F	G
563PKA	0.390 9,91	0.52 13,21	0.225 5,71	0.330 8,38	0.160 4,06	0.400 10,16	0.060 1,52

For other extreme temperature parts,
visit www.coilcraft-cps.com/high-temp.cfm

Testing and Validation Services

Passive Magnetic Component Testing

Coilcraft CPS operates advanced electronic component testing facilities in North America and Asia, providing a comprehensive range of product testing and validation services to help you determine the reliability of assemblies you manufacture and parts you procure.

Capabilities

Testing and services to support product performance verification of Coilcraft (and non-Coilcraft) components include, but are not limited to:

General

- Vibration testing
- Mechanical shock testing
- Complete electrical testing
- Elemental analysis
- Radiographic inspection
- Programmable chamber exposures
- Thermal shock and cycling tests
- Independent loads
- Resistance to solvents
- Customized data reporting for qualification and screening
- Customized certificates of compliance

Electrical Testing

- Dielectric Withstanding Voltage (DWV) and Insulation Resistance (IR)
- Independent loads (0 to 125 Amps, 0 to 300 Volts)
- Temperature rise
- Inductance (at frequencies from 5 Hz to 40 GHz)
- Q (from 5 Hz to 6 GHz)
- DCR
- SRF (from 5 Hz to 40 GHz)
- Impedance (up to 40 GHz)
- Harmonic distortion (from 1 kHz to 100 kHz, up to 6 Volts)
- Longitudinal balance (from 20 kHz to 30 MHz)
- Voltage ratio/Polarity
- Leakage inductance
- Insertion loss (from 5 Hz to 40 GHz)
- Pulse Testing



Testing of Non-Coilcraft Parts

Coilcraft performs custom screening and qualifications, even for parts we don't manufacture.

Call us to get started.

Simulated Environmental Performance Testing

- Humidity (20% to 90% RH)
- Moisture resistance (-10°C to +150°C, 20% to 98% RH)
- Thermal shock (-100°C to +155°C)
- Thermal cycling (-100°C to +200°C)
- High and low temperature storage (-55°C to +250°C)
- Vibration per MIL-STD-202, method 214, conditions A, B and H
- Mechanical shock per MIL-STD-202, method 213, conditions A, C, D, E and F
- Steam aging

Analytical Laboratory Services

- X-ray imaging
- Sample cross-sectioning
- Scanning Electron Microscope (SEM) imaging
- Plating thickness analysis using SEM + X-Ray Fluorescence (XRF)
- Qualitative elemental analysis using Energy Dispersive Spectroscopy (EDS) and XRF

Other Tests and Services

- Solderability testing
- Resistance to solder heat testing
- Electrical characterization
- Tin whisker testing to International Electronics Manufacturing Initiative (iNEMI) standard
- Preparation of First Article Inspection data



MIL-STD-981 :: MIL-PRF-38534 :: MIL-STD-202 :: MIL-PRF-83446 :: MIL-PRF-27 :: AEC-Q200 :: TOR :: EEE-INST-002 :: ESCC 3201

Screening Standards and Services

Coilcraft regularly performs qualification on passive magnetic components in accordance with established standards and specifications. We routinely perform qualification testing in accordance with AEC-Q200, MIL-STD-883 and MIL-STD-202. Screening is also available for MIL-STD-981, MIL-PRF-83446, MIL-PRF-27 and many others, as defined below.



Screening Codes – Military and Space

For screening using the current military and space standards, use the T, U or F codes. These options do not use Coilcraft documentation and will streamline the documentation process.

Screening Code	Screening	Screening Level	SLDC	Component Type
T	—	Screening per MIL-STD-981 (Class S or B)	SLDC Option B	All components
U	—	Screening per EEE-INST-002 (Levels 1, 2 or 3)	SLDC Option B	All components
F	—	Screening per ESCC 3201	SLDC Option B	All components

Screening Codes – Coilcraft-specific Standards

The following screening flows use Coilcraft-specific screening standards. See details of each screening standard below.

Screening Code	Screening	Screening Level	SLDC	Component Type
H	CP-SA-10001	High-reliability basic		All components
G	CP-SA-10001	High-reliability basic	SLDC Option A	All components
D	CP-SA-10001	High-reliability basic	SLDC Option B	All components

Current Testing Documents

CP-SA-10001 screening standard was developed for the medical industry, but has found usage in the military and space sectors as well. It is a low cost, quick and efficient way to prove reliability in a variety of applications. Based on market feedback, compiled customer requests and Coilcraft's expertise in screening and qualification, this standard comprises a robust screening procedure with optional qualification using various MIL-STDs as guidelines.

TOR screenings available.

Custom Screening Coilcraft can also accommodate custom screening requests that may be a modification of an existing screening document, or by creating and implementing custom-built screening flow from the ground up. Whatever the requirements, Coilcraft can adapt to your needs.

Single Lot Date Code (SLDC); Lot size restrictions apply.

Option A Components are manufactured in one continuous manufacturing run.

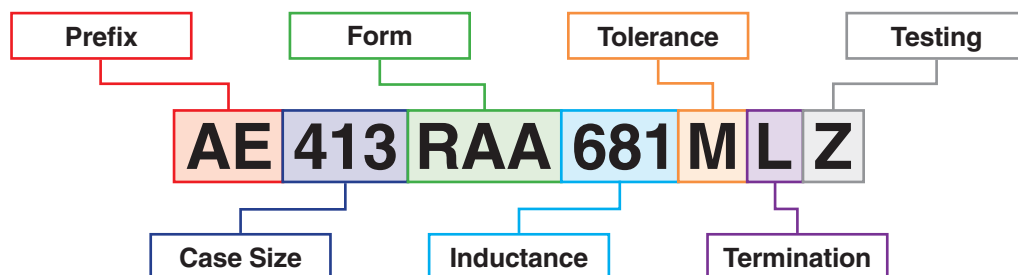
Option B Components are manufactured in one continuous manufacturing run and all raw materials shall be from a single batch.

Older Testing Documents

CP-SA-10003/4/5 are based on MIL-STD-981 (screening and optional qualification) for their respective component types. Coilcraft has tailored these documents to be applicable to modern-day components, while maintaining the high level of scrutiny and reliability as demanded in MIL-STD-981. Parts screened to these levels are typically used in space and military applications.

CP-SA-10006/7/8 are based on EEE-INST-002 (also with screening and optional qualification) for their respective component types. Coilcraft has captured all three levels of the screening flow, and the customer can choose which one fits their needs best. Parts procured to this standard are used in NASA space applications.

Part Numbering – Coilcraft-CPS RF Magnetics



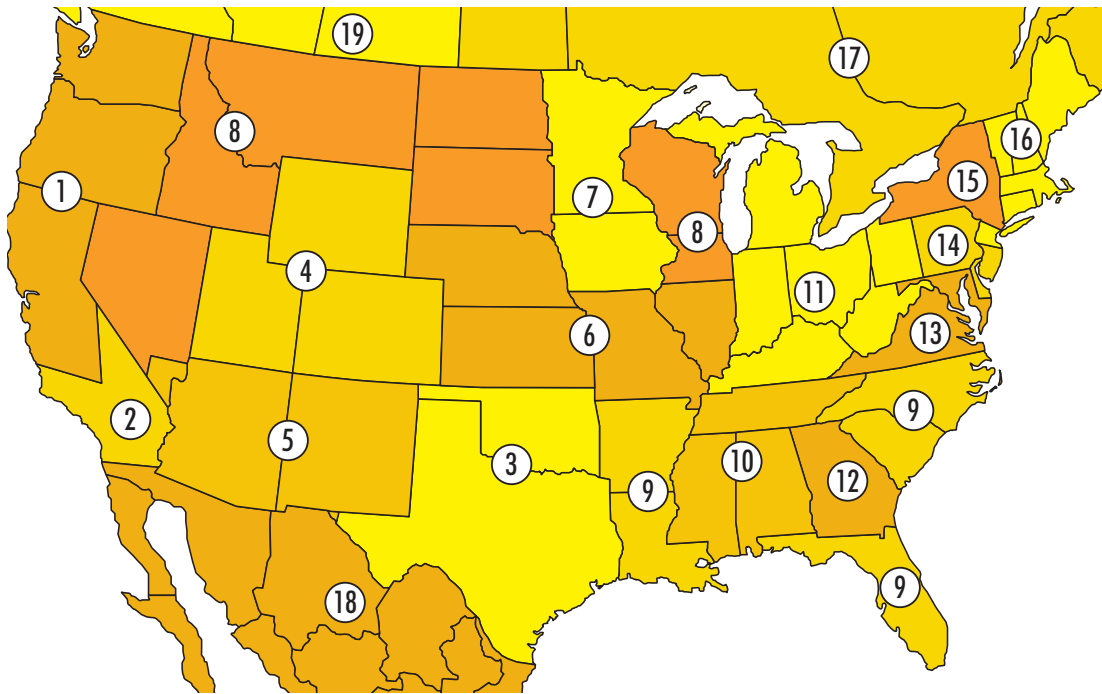
To learn more visit us at www.coilcraft-cps.com/pn

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