

## ABT Series

### Features

- The series has an open magnetic structure. Various inductance range is available.
- The low DC resistance permits high current flow.
- The series exhibit low voltage drops and small variations in inductance with respect to temperature rise and DC current level. This makes them excellent for use as power supply line choke coils.
- The series has excellent solder heat resistance. Both flow and reflow soldering methods can be employed.

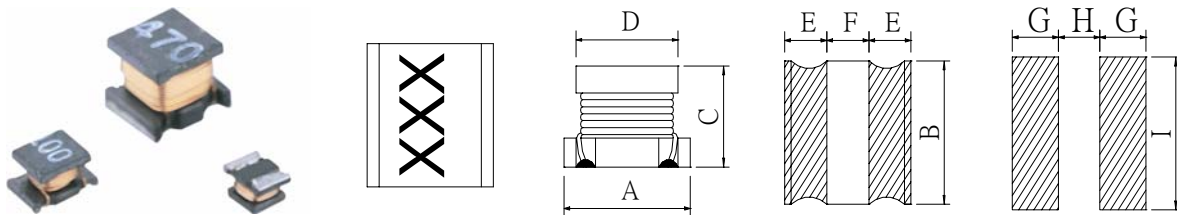
### Applications

- The series are suitable for enhancing the performance of electronic circuits in video, communications and audio equipment.

### Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- S.R.F. measured with HP-8711 RF network analyzer or equivalent.
- Maximum allowable DC current is that which causes a 10% inductance reduction of the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C)
- Operating temperature : -25°C~ +85°C.

### External Dimensions (Unit:mm)



Type	A	B	C	D	E	F	G	H	I
ABT252018	2.5±0.3	2.0±0.3	1.8±0.4	2.0±0.3	0.6±0.3	1.3±0.3	1.3	1.0	3.0
ABT321618	3.2±0.3	1.6±0.2	1.8±0.4	2.3±0.2	0.9±0.3	1.3±0.3	1.3	1.0	3.0
ABT322515	3.2±0.3	2.5±0.2	1.5±0.2	2.5±0.2	0.9±0.3	1.3±0.3	1.3	1.0	3.0
ABT322520	3.2±0.3	2.5±0.2	2.0±0.2	2.5±0.2	0.9±0.3	1.3±0.3	1.3	1.0	3.0
ABT453226	4.5±0.3	3.2±0.2	2.6±0.2	3.6±0.2	1.0±0.3	1.0±0.3	1.8	1.5	3.8
ABT575047	5.7±0.3	5.0±0.3	4.7±0.3	5.0±0.3	1.3±0.3	1.7±0.3	2.3	1.7	5.5

### Part Number Code

ABT      252018      T      R22  
 A            B            C            D

- A: Type of product      SMD Power inductor
- B: Dimensions(mm)      252018: 2.5X2.0X1.8
- C: Tolerance              K: ±10%    M: ±20%
- D: Inductance             R22: 0.22UH

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Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	S.R.F. (MHz) Min	Rated DC Current (A)Max
ABT252018□-R22	0.22	100	0.032	93	0.350
ABT252018□-R39	0.39	100	0.042	95	0.330
ABT252018□-1R0	1.0	100	0.078	85	0.300
ABT252018□-1R2	1.2	100	0.090	80	0.290
ABT252018□-1R5	1.5	100	0.100	75	0.280
ABT252018□-1R8	1.8	100	0.110	60	0.270
ABT252018□-2R2	2.2	100	0.120	50	0.250
ABT252018□-2R7	2.7	100	0.200	43	0.240
ABT252018□-3R3	3.3	100	0.240	38	0.230
ABT252018□-3R9	3.9	100	0.280	35	0.220
ABT252018□-4R7	4.7	100	0.300	31	0.210
ABT252018□-5R6	5.6	100	0.340	28	0.205
ABT252018□-6R8	6.8	100	0.440	25	0.200
ABT252018□-8R2	8.2	100	0.590	23	0.195
ABT252018□-100	10	1	0.680	20	0.190
ABT252018□-120	12	1	0.770	18	0.185
ABT252018□-150	15	1	0.870	16	0.180
ABT252018□-180	18	1	1.200	15	0.175
ABT252018□-220	22	1	1.340	14	0.170
ABT252018□-270	27	1	1.860	13	0.165
ABT252018□-330	33	1	2.100	12	0.160
ABT252018□-390	39	1	2.350	11	0.155
ABT252018□-560	56	1	3.700	10	0.145
ABT252018□-680	68	1	6.000	10	0.135
ABT252018□-820	82	1	6.900	8	0.125
ABT252018□-101	100	1	7.750	8	0.110
ABT252018□-221	220	1	13.42	8	0.090
<b>ABT321618□-R10</b>	<b>0.10</b>	<b>100</b>	<b>0.110</b>	<b>103</b>	<b>0.185</b>
ABT321618□-R12	0.12	100	0.130	103	0.184
ABT321618□-R22	0.22	100	0.140	103	0.183
ABT321618□-R29	0.29	100	0.150	100	0.182
ABT321618□-R47	0.47	100	0.170	100	0.178
ABT321618□-R50	0.50	100	0.180	100	0.175
ABT321618□-1R0	1.0	100	0.490	100	0.172
ABT321618□-1R2	1.2	100	0.500	90	0.165
ABT321618□-1R5	1.5	100	0.520	75	0.155
ABT321618□-1R8	1.8	100	0.530	60	0.150
ABT321618□-2R7	2.7	100	0.550	43	0.135
ABT321618□-3R3	3.3	100	0.610	38	0.130
ABT321618□-3R9	3.9	100	1.500	35	0.125
ABT321618□-4R7	4.7	100	1.700	31	0.120

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ABT321618□-5R6	5.6	100	1.800	28	0.115
ABT321618□-6R8	6.8	100	2.000	25	0.110
ABT321618□-8R2	8.2	100	2.200	23	0.105
ABT321618□-100	10	1	2.500	20	0.100
ABT321618□-110	10	1	2.600	18	0.097
ABT321618□-120	12	1	2.700	16	0.095
ABT321618□-150	15	1	2.900	15	0.090
ABT321618□-180	18	1	3.000	15	0.085
ABT321618□-220	22	1	3.100	14	0.085
ABT321618□-270	27	1	3.400	13	0.085
ABT321618□-330	33	1	3.800	12	0.080
ABT321618□-390	39	1	4.500	11	0.085
ABT321618□-470	47	1	6.300	10	0.085
ABT321618□-560	56	1	7.100	9.0	0.050
ABT321618□-680	68	1	7.900	8.5	0.050
ABT321618□-820	82	1	8.700	7.5	0.045
ABT321618□-101	100	1	11.57	7.0	0.045
ABT321618□-111	110	1	13.00	6.5	0.025
ABT321618□-151	150	1	15.03	6.0	0.015
ABT321618□-181	180	1	16.60	5.5	0.013
ABT321618□-211	210	1	23.00	5.0	0.012
ABT321618□-271	270	1	29.70	4.0	0.011
ABT321618□-331	330	1	43.06	3.5	0.010
ABT321618□-471	470	1	53.50	3.0	0.008
ABT321618□-821	820	1	66.10	2.5	0.005
<b>ABT322515□-1R0</b>	<b>1.0</b>	<b>100</b>	<b>0.060</b>	<b>103</b>	<b>1.480</b>
ABT322515□-1R8	1.8	100	0.101	103	1.310
ABT322515□-2R2	2.2	100	0.125	100	1.250
ABT322515□-3R3	3.3	100	0.160	100	1.080
ABT322515□-4R7	4.7	100	0.236	100	0.980
ABT322515□-5R6	5.6	100	0.287	100	0.900
ABT322515□-6R8	6.8	100	0.371	90	0.790
ABT322515□-8R2	8.2	100	0.471	75	0.720
ABT322515□-100	10	100	0.576	60	0.660
ABT322515□-120	12	100	0.684	50	0.590
ABT322515□-150	15	100	0.888	43	0.540
ABT322515□-180	18	100	1.087	38	0.480
ABT322515□-220	22	100	1.343	35	0.430
ABT322515□-330	33	100	2.245	31	0.350
ABT322515□-470	47	100	3.064	28	0.290
ABT322515□-560	56	100	4.120	25	0.270

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Part Number	Inductance (µH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	S.R.F. (MHz) Min	Rated DC Current (A)Max
ABT322515□-680	68	100	5.289	23	0.240
ABT322515□-820	82	100	7.223	20	0.200
ABT322515□-101	100	1	8.209	18	0.190
ABT322515□-121	120	1	10.89	16	0.170
ABT322515□-151	150	1	12.57	15	0.160
ABT322515□-181	180	1	19.65	15	0.140
ABT322515□-221	220	1	22.31	14	0.130
ABT322515□-271	270	1	24.61	13	0.120
ABT322515□-331	330	1	28.21	12	0.110
ABT322515□-391	390	1	32.19	11	0.100
ABT322515□-471	470	1	48.75	10	0.090
ABT322515□-561	560	1	53.89	9.0	0.080
ABT322515□-681	680	1	63.01	8.5	0.070
<b>ABT322520□-R10</b>	<b>0.1</b>	<b>100</b>	<b>0.250</b>	<b>200</b>	<b>0.700</b>
ABT322520□-R18	0.18	100	0.250	200	0.650
ABT322520□-R27	0.27	100	0.250	200	0.600
ABT322520□-R33	0.33	100	0.250	200	0.550
ABT322520□-R39	0.39	100	0.250	200	0.530
ABT322520□-R56	0.56	100	0.250	160	0.530
ABT322520□-R68	0.68	100	0.250	160	0.470
ABT322520□-R82	0.82	100	0.250	120	0.450
ABT322520□-1R0	1.0	100	0.500	100	0.445
ABT322520□-1R2	1.2	100	0.600	100	0.425
ABT322520□-1R8	1.8	100	0.700	60	0.390
ABT322520□-2R2	2.2	100	0.800	50	0.370
ABT322520□-2R7	2.7	100	0.900	43	0.320
ABT322520□-3R3	3.3	100	1.000	38	0.300
ABT322520□-3R9	3.9	100	1.100	35	0.290
ABT322520□-4R7	4.7	100	1.200	31	0.270
ABT322520□-5R6	5.6	100	1.300	28	0.250
ABT322520□-6R8	6.8	100	1.500	25	0.240
ABT322520□-8R2	8.2	100	1.600	23	0.225
ABT322520□-100	10	1	1.800	20	0.190
ABT322520□-120	12	1	2.000	18	0.180
ABT322520□-150	15	1	2.200	16	0.170
ABT322520□-180	18	1	2.500	15	0.160
ABT322520□-220	22	1	2.800	14	0.150
ABT322520□-270	27	1	3.100	13	0.125
ABT322520□-330	33	1	3.500	12	0.115
ABT322520□-390	39	1	3.900	11	0.110
ABT322520□-470	47	1	4.300	11	0.100

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ABT322520□-560	56	1	4.900	10	0.085
ABT322520□-680	68	1	5.500	9.0	0.080
ABT322520□-820	82	1	6.200	8.5	0.080
ABT322520□-101	100	1	7.000	8.0	0.080
ABT322520□-121	120	1	8.000	7.5	0.075
ABT322520□-151	150	1	9.300	7.0	0.070
ABT322520□-181	180	1	10.20	6.0	0.065
ABT322520□-221	220	1	11.80	5.5	0.065
ABT322520□-271	270	1	12.50	5.0	0.065
ABT322520□-331	330	1	13.00	5.0	0.065
ABT322520□-391	390	1	22.00	5.0	0.050
ABT322520□-471	470	1	25.00	5.0	0.045
ABT322520□-561	560	1	28.00	5.0	0.040
ABT322520□-681	680	1	30.00	5.0	0.035
ABT322520□-102	1000	1	39.20	5.0	0.030
ABT453226□-1R0	1.0	100	0.200	120	0.500
ABT453226□-1R5	1.5	100	0.300	85	0.500
ABT453226□-1R8	1.8	100	0.300	75	0.500
ABT453226□-2R2	2.2	100	0.300	62	0.500
ABT453226□-2R7	2.7	100	0.320	53	0.500
ABT453226□-3R3	3.3	100	0.350	47	0.500
ABT453226□-3R9	3.9	100	0.380	41	0.500
ABT453226□-4R7	4.7	100	0.400	35	0.500
ABT453226□-5R6	5.6	100	0.470	33	0.500
ABT453226□-6R8	6.8	100	0.500	31	0.450
ABT453226□-8R2	8.2	100	0.560	27	0.450
ABT453226□-100	10	1	0.560	23	0.400
ABT453226□-120	12	1	0.620	21	0.380
ABT453226□-130	13	1	0.680	20	0.370
ABT453226□-150	15	1	0.730	19	0.360
ABT453226□-180	18	1	0.820	17	0.340
ABT453226□-220	22	1	0.940	15	0.320
ABT453226□-270	27	1	1.100	14	0.300
ABT453226□-330	33	1	1.200	12	0.270
ABT453226□-390	39	1	1.400	12	0.240
ABT453226□-470	47	1	1.500	10	0.220
ABT453226□-560	56	1	1.500	9.3	0.200
ABT453226□-680	68	1	1.700	8.4	0.180
ABT453226□-820	82	1	1.900	7.5	0.170
ABT453226□-101	100	1	2.200	6.2	0.160
ABT453226□-121	120	1	2.500	5.5	0.150

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ABT453226□-181	180	1	4.50	5.0	0.120
ABT453226□-221	220	1	5.40	4.5	0.110
ABT453226□-271	270	1	6.80	4.0	0.100
ABT453226□-331	330	1	8.20	3.6	0.095
ABT453226□-391	390	1	9.70	3.3	0.090
ABT453226□-471	470	1	11.80	2.7	0.080
ABT453226□-561	560	1	14.50	2.5	0.070
ABT453226□-681	680	1	17.00	2.2	0.065
ABT453226□-821	820	1	20.50	2.0	0.060
ABT453226□-102	1000	1	25.00	1.8	0.050
ABT453226□-122	1200	1	30.00	1.6	0.045
ABT453226□-152	1500	1	37.00	1.5	0.040
ABT453226□-182	1800	1	45.00	1.3	0.035
ABT453226□-222	2200	1	50.00	1.2	0.030
ABT453226□-103	10000	1	285.0	1.1	0.015
<b>ABT575047□-R12</b>	<b>0.12</b>	<b>100</b>	<b>0.010</b>	<b>450</b>	<b>6.000</b>
ABT575047□-R27	0.27	100	0.014	300	5.300
ABT575047□-R47	0.47	100	0.018	200	4.800
ABT575047□-1R0	1.0	100	0.027	150	4.000
ABT575047□-1R5	1.5	100	0.031	110	3.700
ABT575047□-2R2	2.2	100	0.041	80	3.200
ABT575047□-3R3	3.3	100	0.050	40	2.900
ABT575047□-4R7	4.7	100	0.057	30	2.700
ABT575047□-6R8	6.8	100	0.100	25	2.000
ABT575047□-100	10	1	0.130	20	1.700
ABT575047□-120	12	1	0.200	18	1.500
ABT575047□-150	15	1	0.210	17	1.400
ABT575047□-240	24	1	0.290	14	1.100
ABT575047□-270	27	1	0.300	13.5	1.000
ABT575047□-330	33	1	0.450	12	0.900
ABT575047□-470	47	1	0.560	10	0.800
ABT575047□-680	68	1	0.940	7.6	0.640
ABT575047□-101	100	1	1.200	6.5	0.560
ABT575047□-151	150	1	2.660	5.0	0.420
ABT575047□-221	220	1	3.360	4.0	0.320
ABT575047□-331	330	1	6.160	3.1	0.270
ABT575047□-471	470	1	7.560	2.4	0.240
ABT575047□-681	680	1	11.30	1.9	0.190
ABT575047□-102	1000	1	14.40	1.7	0.150
ABT575047□-123	1200	1	18.00	0.95	0.120
ABT575047□-153	1500	1	30.10	0.8	0.100

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ABT575047□-223	2200	1	45	0.75	0.09
ABT575047□-243	2400	1	47	0.70	0.085
ABT575047□-332	3300	1	50	0.65	0.08
ABT575047□-472	4700	1	61	0.55	0.07
ABT575047□-682	6800	1	100	0.45	0.06
ABT575047□-822	8200	1	125	0.40	0.05
ABT575047□-103	10000	1	140	0.50	0.05