

### ABG Series

#### Features

- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels.
- Metallization on Ferrite Core results in excellent shock resistance and damage-free durability.
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference(EMI) .
- 30% high current rating than conventional inductors of equal size.
- Takes up less PCB real estate and save more power.

#### Applications

- LED Lighting
- Next-generation mobile devices with multifunction such as adding color TV and digital movie cameras
- Flat-screen TVs,blue-ray disc recorders set top box
- Notebooks,desktop computers,servers,graphic cards
- Portable gaming devices,personal navigation systems,personal multimedia devices

#### Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- Maximum allowable DC current which causes 35% 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~ +120°C.

#### External dimensions (Unit:m/m)



TYPE	A	B	C	D	E	F	aTyp	bTyp	cTyp	Q'TY/Reel
ABG25A10	2.5±0.1	2.0±0.1	1.0Max	1.5±0.2	0.80±0.2	0.80±0.2	0.8	0.85	2.0	2000
ABG25A12	2.5±0.1	2.0±0.1	1.2Max	1.5±0.2	0.80±0.2	0.80±0.2	0.8	0.85	2.0	2000
ABG03A10	3.0±0.2	3.0±0.2	1.0Max	2.5±0.2	0.75±0.2	1.5±0.2	1.5	0.8	2.7	2000
ABG03A12	3.0±0.2	3.0±0.2	1.2Max	2.5±0.2	0.75±0.2	1.5±0.2	1.5	0.8	2.7	2000
ABG03A15	3.0±0.2	3.0±0.2	1.5Max	2.5±0.2	0.75±0.2	1.5±0.2	1.5	0.8	2.7	2000
ABG04A12	4.0±0.2	4.0±0.2	1.2Max	3.3±0.2	0.95±0.2	2.1±0.2	1.9	1.1	3.4	4500
ABG04A18	4.0±0.2	4.0±0.2	1.8Max	3.3±0.2	0.95±0.2	2.1±0.2	1.9	1.1	3.4	3000
ABG04A20	4.0±0.2	4.0±0.2	2.0Max	3.3±0.2	0.95±0.2	2.1±0.2	1.9	1.1	3.4	3000
ABG04A30	4.0±0.2	4.0±0.2	3.0Max	3.3±0.2	0.95±0.2	2.1±0.2	1.9	1.1	3.4	2000
ABG05A20	5.0±0.2	5.0±0.2	2.0Max	4.0±0.2	1.25±0.2	2.5±0.2	2.3	1.4	4.2	2500
ABG05A40	5.0±0.2	5.0±0.2	4.0Max	4.0±0.2	1.25±0.2	2.5±0.2	2.3	1.4	4.2	1500
ABG06A20	6.0±0.3	6.0±0.3	2.0Max	4.9±0.3	1.55±0.3	2.9±0.3	2.8	1.7	5.7	2500
ABG06A28	6.0±0.3	6.0±0.3	2.8Max	4.9±0.3	1.55±0.3	2.9±0.3	2.8	1.7	5.7	2000
ABG06A45	6.0±0.3	6.0±0.3	4.5Max	4.9±0.3	1.55±0.3	2.9±0.3	2.8	1.7	5.7	1500
ABG08A40	8.0±0.3	8.0±0.3	4.2Max	6.3±0.3	2.00±0.3	4.0±0.3	3.8	2.2	7.5	1000

#### Part Number Code

ABG   25   A   10   N   R47  
 A   B   C   D   E   F

A: Series Name                      Power Inductors  
 B: Dimensions(mm)                 25: 2.5±0.1  
 C: Materials                            NO use  
 D: Thickness(mm)                    10: 1.0 Max  
 E: Tolerance                            N: ±30%   M: ±20%  
 F: Inductance                          R47=0.47uH

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Part Number	Inductance( $\mu$ H) @100KHz,1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Min Self-resonant Frequency(MHz)	Saturation Current Isat (A)	Heat Rating Current Irms (A)
ABG25A10□-R47	0.47 $\pm$ 30%	0.045	180	3.45	2.42
ABG25A10□-R68	0.68 $\pm$ 30%	0.060	180	2.83	2.06
ABG25A10□-1R0	1.0 $\pm$ 30%	0.087	180	2.27	1.70
ABG25A10□-1R5	1.5 $\pm$ 30%	0.147	120	2.16	1.34
ABG25A10□-2R2	2.2 $\pm$ 30%	0.167	100	1.65	1.24
ABG25A10□-3R3	3.3 $\pm$ 20%	0.263	90	1.34	0.93
ABG25A10□-4R7	4.7 $\pm$ 20%	0.452	75	1.18	0.72
ABG25A10□-6R8	6.8 $\pm$ 20%	0.719	42	0.95	0.61
ABG25A10□-100	10 $\pm$ 20%	0.876	39	0.80	0.52
ABG25A12□-R47	0.47 $\pm$ 30%	0.037	180	4.15	2.34
ABG25A12□-R68	0.68 $\pm$ 30%	0.065	180	3.53	1.78
ABG25A12□-1R0	1.0 $\pm$ 30%	0.076	150	3.09	1.63
ABG25A12□-1R2	1.2 $\pm$ 30%	0.088	120	2.75	1.50
ABG25A12□-1R5	1.5 $\pm$ 20%	0.101	100	2.59	1.44
ABG25A12□-2R2	2.2 $\pm$ 20%	0.147	90	2.13	1.18
ABG25A12□-2R7	2.7 $\pm$ 20%	0.164	85	1.98	1.12
ABG25A12□-3R3	3.3 $\pm$ 20%	0.178	82	1.85	1.07
ABG25A12□-3R6	3.6 $\pm$ 20%	0.239	80	1.71	0.93
ABG25A12□-4R3	4.3 $\pm$ 20%	0.258	70	1.58	0.90
ABG25A12□-4R7	4.7 $\pm$ 20%	0.280	59	1.36	0.87
ABG25A12□-5R1	5.1 $\pm$ 20%	0.280	55	1.36	0.87
ABG25A12□-5R6	5.6 $\pm$ 20%	0.297	50	1.30	0.83
ABG25A12□-6R2	6.2 $\pm$ 20%	0.370	49	1.19	0.75
ABG25A12□-6R8	6.8 $\pm$ 20%	0.397	45	1.12	0.71
ABG25A12□-7R5	7.5 $\pm$ 20%	0.418	40	1.12	0.70
ABG25A12□-8R2	8.2 $\pm$ 20%	0.450	35	1.13	0.67
ABG25A12□-9R1	9.1 $\pm$ 20%	0.494	30	1.09	0.64
ABG25A12□-100	10 $\pm$ 20%	0.511	28	1.00	0.64
ABG25A12□-120	12 $\pm$ 20%	0.735	26	0.90	0.53
ABG25A12□-150	15 $\pm$ 20%	1.088	22	0.78	0.43
ABG25A12□-220	22 $\pm$ 20%	1.351	20	0.61	0.39
ABG03A10□-1R0	1.0 $\pm$ 30%	0.063	180	1.44	1.49
ABG03A10□-1R5	1.5 $\pm$ 30%	0.077	120	1.31	1.34
ABG03A10□-2R2	2.2 $\pm$ 30%	0.106	100	1.18	1.12
ABG03A10□-2R7	2.7 $\pm$ 30%	0.125	90	1.03	1.05
ABG03A10□-3R3	3.3 $\pm$ 30%	0.139	74	1.00	0.99
ABG03A10□-3R6	3.6 $\pm$ 20%	0.159	67	0.98	0.93
ABG03A10□-4R7	4.7 $\pm$ 20%	0.216	59	0.77	0.79
ABG03A10□-6R8	6.8 $\pm$ 20%	0.293	42	0.57	0.68
ABG03A10□-100	10 $\pm$ 20%	0.385	39	0.57	0.60

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ABG03A10-120	12 $\pm$ 20%	0.486	36	0.44	0.54
ABG03A10-150	15 $\pm$ 20%	0.587	30	0.43	0.48
ABG03A10-220	22 $\pm$ 20%	0.896	28	0.36	0.39
ABG03A10-270	27 $\pm$ 20%	1.040	25	0.31	0.36
ABG03A10-330	33 $\pm$ 20%	1.493	18	0.30	0.31
ABG03A10-390	39 $\pm$ 20%	1.685	18	0.29	0.29
ABG03A10-430	43 $\pm$ 20%	1.733	18	0.24	0.28
ABG03A10-470	47 $\pm$ 20%	1.878	18	0.23	0.27
ABG03A10-510	51 $\pm$ 20%	2.119	18	0.22	0.26
ABG03A10-560	56 $\pm$ 20%	2.234	16	0.22	0.25
ABG03A12-R82	0.82 $\pm$ 30%	0.029	180	2.11	2.54
ABG03A12-1R0	1.0 $\pm$ 30%	0.039	120	1.93	2.27
ABG03A12-1R2	1.2 $\pm$ 30%	0.043	120	2.29	2.07
ABG03A12-1R5	1.5 $\pm$ 30%	0.043	110	1.67	2.07
ABG03A12-1R8	1.8 $\pm$ 20%	0.053	90	1.56	1.90
ABG03A12-2R2	2.2 $\pm$ 20%	0.072	84	1.24	1.60
ABG03A12-2R4	2.4 $\pm$ 20%	0.065	80	1.18	1.55
ABG03A12-2R7	2.7 $\pm$ 20%	0.081	65	1.17	1.52
ABG03A12-3R3	3.3 $\pm$ 20%	0.096	64	1.08	1.40
ABG03A12-4R7	4.7 $\pm$ 20%	0.116	61	0.93	1.28
ABG03A12-6R8	6.8 $\pm$ 20%	0.183	61	0.77	1.01
ABG03A12-100	10 $\pm$ 20%	0.255	42	0.62	0.85
ABG03A12-120	12 $\pm$ 20%	0.332	32	0.49	0.75
ABG03A12-150	15 $\pm$ 20%	0.347	27	0.46	0.73
ABG03A12-180	18 $\pm$ 20%	0.524	25	0.44	0.60
ABG03A12-220	22 $\pm$ 20%	0.621	23	0.43	0.55
ABG03A12-270	27 $\pm$ 20%	0.741	21	0.41	0.50
ABG03A12-330	33 $\pm$ 20%	0.842	18	0.37	0.47
ABG03A12-360	36 $\pm$ 20%	0.915	18	0.35	0.45
ABG03A12-390	39 $\pm$ 20%	1.281	18	0.31	0.38
ABG03A12-470	47 $\pm$ 20%	1.329	14	0.28	0.37
ABG03A12-560	56 $\pm$ 20%	1.329	14	0.27	0.37
ABG03A12-620	62 $\pm$ 20%	1.473	12	0.26	0.36
ABG03A12-680	68 $\pm$ 20%	1.608	12	0.25	0.34
ABG03A12-820	82 $\pm$ 20%	2.446	12	0.23	0.28
ABG03A12-101	100 $\pm$ 20%	2.754	12	0.22	0.26
ABG03A15-1R0	1.0 $\pm$ 30%	0.036	150	2.37	2.16
ABG03A15-1R2	1.2 $\pm$ 30%	0.039	110	2.28	2.01
ABG03A15-1R5	1.5 $\pm$ 30%	0.048	100	2.37	1.75
ABG03A15-1R8	1.8 $\pm$ 30%	0.048	92	1.80	1.75

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ABG03A15□-2R2	2.2 $\pm$ 30%	0.058	86	1.65	1.65
ABG03A15□-2R7	2.7 $\pm$ 30%	0.072	64	1.57	1.47
ABG03A15□-3R3	3.3 $\pm$ 20%	0.077	68	1.36	1.40
ABG03A15□-3R6	3.6 $\pm$ 20%	0.101	59	1.32	1.24
ABG03A15□-4R3	4.3 $\pm$ 20%	0.110	53	1.24	1.17
ABG03A15□-4R7	4.7 $\pm$ 20%	0.120	46	1.13	1.12
ABG03A15□-5R1	5.1 $\pm$ 20%	0.120	49	1.11	1.12
ABG03A15□-6R2	6.2 $\pm$ 20%	0.187	46	1.03	0.89
ABG03A15□-6R8	6.8 $\pm$ 20%	0.193	39	0.88	0.88
ABG03A15□-100	10 $\pm$ 20%	0.241	41	0.74	0.79
ABG03A15□-120	12 $\pm$ 20%	0.308	32	0.72	0.70
ABG03A15□-150	15 $\pm$ 20%	0.337	30	0.68	0.67
ABG03A15□-180	18 $\pm$ 20%	0.414	23	0.58	0.61
ABG03A15□-220	22 $\pm$ 20%	0.443	23	0.54	0.59
ABG03A15□-330	33 $\pm$ 20%	0.790	20	0.45	0.44
ABG03A15□-390	39 $\pm$ 20%	0.958	14	0.42	0.40
ABG03A15□-430	43 $\pm$ 20%	1.021	16	0.38	0.38
ABG03A15□-470	47 $\pm$ 20%	1.204	14	0.36	0.36
ABG03A15□-560	56 $\pm$ 20%	1.233	13	0.34	0.35
ABG03A15□-620	62 $\pm$ 20%	1.377	13	0.34	0.33
ABG03A15□-680	68 $\pm$ 20%	2.600	11	0.29	0.24
ABG04A12□-R82	0.82 $\pm$ 30%	0.048	150	3.64	1.70
ABG04A12□-1R0	1.0 $\pm$ 30%	0.048	120	2.69	1.70
ABG04A12□-1R5	1.5 $\pm$ 30%	0.062	90	2.16	1.50
ABG04A12□-1R8	1.8 $\pm$ 30%	0.077	88	2.54	1.36
ABG04A12□-2R2	2.2 $\pm$ 30%	0.077	74	1.81	1.36
ABG04A12□-2R7	2.7 $\pm$ 30%	0.087	71	1.96	1.29
ABG04A12□-3R3	3.3 $\pm$ 30%	0.108	60	1.29	1.15
ABG04A12□-3R6	3.6 $\pm$ 30%	0.106	57	1.24	1.15
ABG04A12□-4R3	4.3 $\pm$ 30%	0.135	54	1.80	1.03
ABG04A12□-4R7	4.7 $\pm$ 30%	0.120	50	1.18	1.08
ABG04A12□-5R1	5.1 $\pm$ 30%	0.149	50	1.25	0.98
ABG04A12□-6R8	6.8 $\pm$ 20%	0.190	40	0.98	0.87
ABG04A12□-100	10 $\pm$ 20%	0.255	33	0.82	0.79
ABG04A12□-120	12 $\pm$ 20%	0.279	32	0.68	0.72
ABG04A12□-150	15 $\pm$ 20%	0.327	25	0.58	0.66
ABG04A12□-180	18 $\pm$ 20%	0.453	23	0.57	0.57
ABG04A12□-220	22 $\pm$ 20%	0.453	20	0.56	0.57
ABG04A12□-270	27 $\pm$ 20%	0.693	18	0.52	0.46
ABG04A12□-330	33 $\pm$ 20%	0.780	17	0.43	0.43

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ABG04A12□-360	36 $\pm$ 20%	0.867	14	0.41	0.41
ABG04A12□-390	39 $\pm$ 20%	1.059	16	0.57	0.38
ABG04A12□-470	47 $\pm$ 20%	1.059	12	0.36	0.38
ABG04A12□-560	56 $\pm$ 20%	1.204	11	0.34	0.34
ABG04A12□-680	68 $\pm$ 20%	1.406	11	0.31	0.32
ABG04A12□-820	82 $\pm$ 20%	2.061	11	0.29	0.27
ABG04A12□-101	100 $\pm$ 20%	2.128	9.4	0.26	0.26
ABG04A18□-1R0	1.0 $\pm$ 30%	0.024	80	4.94	2.06
ABG04A18□-2R2	2.2 $\pm$ 20%	0.043	52	2.78	1.70
ABG04A18□-3R3	3.3 $\pm$ 20%	0.067	44	2.52	1.27
ABG04A18□-4R7	4.7 $\pm$ 20%	0.087	34	1.75	1.24
ABG04A18□-6R8	6.8 $\pm$ 20%	0.106	29	1.49	1.09
ABG04A18□-100	10 $\pm$ 20%	0.173	24	1.34	0.87
ABG04A18□-150	15 $\pm$ 20%	0.241	19	0.97	0.67
ABG04A18□-220	22 $\pm$ 20%	0.347	16	0.82	0.61
ABG04A18□-330	33 $\pm$ 20%	0.510	12	0.67	0.50
ABG04A18□-470	47 $\pm$ 20%	0.626	10	0.59	0.43
ABG04A18□-680	68 $\pm$ 20%	0.963	8.3	0.48	0.33
ABG04A18□-101	100 $\pm$ 20%	1.685	6.5	0.41	0.26
ABG04A18□-151	150 $\pm$ 20%	2.407	5.5	0.32	0.23
ABG04A18□-221	220 $\pm$ 20%	3.852	4.0	0.28	0.18
ABG04A20□-1R0	1.0 $\pm$ 30%	0.027	75	5.00	2.21
ABG04A20□-1R2	1.2 $\pm$ 30%	0.027	72	5.25	2.21
ABG04A20□-1R5	1.5 $\pm$ 30%	0.033	71	4.58	2.04
ABG04A20□-2R2	2.2 $\pm$ 30%	0.039	49	3.50	1.91
ABG04A20□-3R3	3.3 $\pm$ 20%	0.067	44	3.30	1.44
ABG04A20□-3R6	3.6 $\pm$ 20%	0.053	49	2.88	1.59
ABG04A20□-4R7	4.7 $\pm$ 20%	0.072	42	2.42	1.38
ABG04A20□-5R1	5.1 $\pm$ 20%	0.081	42	2.37	1.31
ABG04A20□-5R6	5.6 $\pm$ 20%	0.087	30	2.27	1.26
ABG04A20□-6R2	6.2 $\pm$ 20%	0.110	36	2.21	1.11
ABG04A20□-6R8	6.8 $\pm$ 20%	0.120	33	2.27	1.07
ABG04A20□-7R5	7.5 $\pm$ 20%	0.110	30	1.91	1.11
ABG04A20□-8R2	8.2 $\pm$ 20%	0.120	27	1.80	1.07
ABG04A20□-100	10 $\pm$ 20%	0.159	26	1.65	0.93
ABG04A20□-120	12 $\pm$ 20%	0.168	26	1.55	0.91
ABG04A20□-150	15 $\pm$ 20%	0.221	24	1.39	0.79
ABG04A20□-220	22 $\pm$ 20%	0.337	15	1.08	0.64
ABG04A20□-270	27 $\pm$ 20%	0.524	14	1.05	0.52
ABG04A20□-330	33 $\pm$ 20%	0.530	11	0.88	0.50

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ABG04A20-390	39 $\pm$ 20%	0.626	11	0.84	0.47
ABG04A20-430	43 $\pm$ 20%	0.636	10	0.79	0.46
ABG04A20-470	47 $\pm$ 20%	0.684	10	0.76	0.45
ABG04A20-510	51 $\pm$ 20%	0.722	10	0.72	0.43
ABG04A20-560	56 $\pm$ 20%	0.770	10	0.68	0.42
ABG04A20-620	62 $\pm$ 20%	0.867	9.6	0.67	0.40
ABG04A30-R91	0.91 $\pm$ 30%	0.021	100	6.44	3.24
ABG04A30-1R2	1.2 $\pm$ 30%	0.024	80	5.97	3.05
ABG04A30-1R5	1.5 $\pm$ 30%	0.029	62	4.99	3.01
ABG04A30-1R8	1.8 $\pm$ 30%	0.029	60	5.56	3.01
ABG04A30-2R2	2.2 $\pm$ 30%	0.033	52	5.05	2.65
ABG04A30-3R3	3.3 $\pm$ 20%	0.039	38	3.40	2.47
ABG04A30-4R3	4.3 $\pm$ 20%	0.053	37	3.04	2.16
ABG04A30-4R7	4.7 $\pm$ 20%	0.058	31	2.99	2.06
ABG04A30-5R6	5.6 $\pm$ 20%	0.062	30	2.68	2.01
ABG04A30-6R2	6.2 $\pm$ 20%	0.067	29	2.58	1.91
ABG04A30-6R8	6.8 $\pm$ 20%	0.087	24	2.83	1.65
ABG04A30-7R5	7.5 $\pm$ 20%	0.081	26	2.27	1.70
ABG04A30-8R2	8.2 $\pm$ 20%	0.087	26	2.16	1.65
ABG04A30-9R1	9.1 $\pm$ 20%	0.091	23	2.06	1.60
ABG04A30-100	10 $\pm$ 20%	0.096	21	2.01	1.55
ABG04A30-120	12 $\pm$ 20%	0.130	18	1.75	1.34
ABG04A30-150	15 $\pm$ 20%	0.183	16	1.70	1.14
ABG04A30-180	18 $\pm$ 20%	0.193	10	1.44	1.13
ABG04A30-220	22 $\pm$ 20%	0.216	10	1.34	1.03
ABG04A30-330	33 $\pm$ 20%	0.318	10	1.13	0.87
ABG04A30-360	36 $\pm$ 20%	0.322	9.8	1.08	0.85
ABG04A30-390	39 $\pm$ 20%	0.419	10	1.06	0.75
ABG04A30-430	43 $\pm$ 20%	0.424	9.2	1.03	0.75
ABG04A30-470	47 $\pm$ 20%	0.428	8.4	0.98	0.74
ABG04A30-510	51 $\pm$ 20%	0.453	8.4	0.93	0.72
ABG04A30-560	56 $\pm$ 20%	0.534	8.4	0.88	0.67
ABG04A30-620	62 $\pm$ 20%	0.798	7.0	0.82	0.55
ABG04A30-680	68 $\pm$ 20%	0.836	7.0	0.77	0.54
ABG04A30-750	75 $\pm$ 20%	0.982	6.3	0.72	0.49
ABG04A30-820	82 $\pm$ 20%	1.021	5.6	0.68	0.48
ABG04A30-910	91 $\pm$ 20%	1.059	5.6	0.67	0.47
ABG04A30-101	100 $\pm$ 20%	1.107	5.6	0.62	0.46
ABG04A30-121	120 $\pm$ 20%	1.300	5.4	0.57	0.43
ABG05A20-1R0	1.0 $\pm$ 30%	0.017	97	4.46	3.81

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz,1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Min Self-resonant Frequency(MHz)	Saturation Current Isat (A)	Heat Rating Current Irms (A)
ABG05A20-1R5	1.5 $\pm$ 30%	0.024	80	3.97	3.30
ABG05A20-2R2	2.2 $\pm$ 30%	0.033	61	3.97	2.99
ABG05A20-3R3	3.3 $\pm$ 30%	0.042	46	3.35	2.47
ABG05A20-4R7	4.7 $\pm$ 30%	0.056	33	2.47	2.11
ABG05A20-6R8	6.8 $\pm$ 20%	0.084	30	1.85	1.75
ABG05A20-100	10 $\pm$ 20%	0.106	24	1.84	1.55
ABG05A20-150	15 $\pm$ 20%	0.159	20	1.48	1.29
ABG05A20-220	22 $\pm$ 20%	0.226	16	1.22	1.08
ABG05A20-330	33 $\pm$ 20%	0.356	13	1.00	0.85
ABG05A20-470	47 $\pm$ 20%	0.505	11	0.83	0.72
ABG05A20-680	68 $\pm$ 20%	0.852	8.8	0.72	0.55
ABG05A20-101	100 $\pm$ 20%	1.021	7.6	0.59	0.50
ABG05A40-1R5	1.5 $\pm$ 30%	0.012	60	7.52	4.58
ABG05A40-2R2	2.2 $\pm$ 30%	0.016	42	6.70	4.07
ABG05A40-3R3	3.3 $\pm$ 30%	0.024	32	5.25	3.50
ABG05A40-4R7	4.7 $\pm$ 30%	0.027	28	4.53	3.19
ABG05A40-6R8	6.8 $\pm$ 20%	0.041	21	3.91	2.47
ABG05A40-100	10 $\pm$ 20%	0.053	18	2.99	2.16
ABG05A40-150	15 $\pm$ 20%	0.085	13	2.37	1.65
ABG05A40-220	22 $\pm$ 20%	0.121	9.0	1.96	1.44
ABG05A40-330	33 $\pm$ 20%	0.184	7.0	1.65	1.24
ABG05A40-470	47 $\pm$ 20%	0.272	6.0	1.34	0.97
ABG06A20-R50	0.50 $\pm$ 30%	0.012	130	5.05	4.17
ABG06A20-R68	0.68 $\pm$ 30%	0.016	120	7.73	3.91
ABG06A20-R82	0.82 $\pm$ 30%	0.016	110	6.80	3.91
ABG06A20-1R0	1.0 $\pm$ 30%	0.019	94	4.27	3.35
ABG06A20-1R2	1.2 $\pm$ 30%	0.021	88	6.08	3.30
ABG06A20-1R5	1.5 $\pm$ 30%	0.021	79	4.38	3.30
ABG06A20-1R8	1.8 $\pm$ 30%	0.027	68	5.00	2.83
ABG06A20-2R0	2.0 $\pm$ 30%	0.033	64	4.43	2.52
ABG06A20-2R2	2.2 $\pm$ 30%	0.027	61	3.86	2.83
ABG06A20-2R7	2.7 $\pm$ 30%	0.033	56	4.02	2.68
ABG06A20-3R3	3.3 $\pm$ 30%	0.033	51	3.24	2.68
ABG06A20-3R9	3.9 $\pm$ 30%	0.047	46	3.35	2.16
ABG06A20-4R3	4.3 $\pm$ 30%	0.047	44	2.78	2.16
ABG06A20-4R7	4.7 $\pm$ 30%	0.056	41	3.09	2.06
ABG06A20-5R6	5.6 $\pm$ 30%	0.056	36	2.47	1.96
ABG06A20-6R2	6.2 $\pm$ 30%	0.076	35	2.37	1.85
ABG06A20-6R8	6.8 $\pm$ 30%	0.076	31	2.27	1.85
ABG06A20-8R2	8.2 $\pm$ 20%	0.101	28	2.16	1.44

**ABG Series**

Part Number	Inductance( $\mu$ H) @100KHz,1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Min Self-resonant Frequency(MHz)	Saturation Current Isat (A)	Heat Rating Current Irms (A)
ABG06A20-100	10 $\pm$ 20%	0.101	27	1.80	1.44
ABG06A20-120	12 $\pm$ 20%	0.116	23	1.75	1.39
ABG06A20-150	15 $\pm$ 20%	0.139	21	1.55	1.24
ABG06A20-180	18 $\pm$ 20%	0.168	19	1.27	1.13
ABG06A20-220	22 $\pm$ 20%	0.196	16	1.29	1.03
ABG06A28-1R5	1.5 $\pm$ 30%	0.012	65	6.18	4.72
ABG06A28-2R2	2.2 $\pm$ 30%	0.014	56	5.25	4.21
ABG06A28-2R7	2.7 $\pm$ 30%	0.019	48	3.91	3.86
ABG06A28-3R3	3.3 $\pm$ 30%	0.024	41	3.74	3.58
ABG06A28-4R7	4.7 $\pm$ 30%	0.029	35	3.09	3.17
ABG06A28-5R1	5.1 $\pm$ 30%	0.033	33	3.66	2.98
ABG06A28-6R2	6.2 $\pm$ 20%	0.039	30	3.14	2.66
ABG06A28-6R8	6.8 $\pm$ 20%	0.045	27	2.94	2.47
ABG06A28-8R2	8.2 $\pm$ 20%	0.053	24	2.68	2.32
ABG06A28-9R1	9.1 $\pm$ 20%	0.058	24	2.63	2.21
ABG06A28-100	10 $\pm$ 20%	0.069	23	2.10	2.01
ABG06A28-120	12 $\pm$ 20%	0.077	18	1.85	1.91
ABG06A28-150	15 $\pm$ 20%	0.120	18	1.80	1.49
ABG06A28-180	18 $\pm$ 20%	0.116	15	1.57	1.49
ABG06A28-220	22 $\pm$ 20%	0.135	14	1.65	1.44
ABG06A28-270	27 $\pm$ 20%	0.149	13	1.55	1.36
ABG06A28-330	33 $\pm$ 20%	0.178	12	1.39	1.26
ABG06A28-360	36 $\pm$ 20%	0.207	11	1.29	1.16
ABG06A28-390	39 $\pm$ 20%	0.216	11	1.29	1.13
ABG06A28-430	43 $\pm$ 20%	0.226	11	1.24	1.10
ABG06A28-470	47 $\pm$ 20%	0.236	9.5	1.18	1.09
ABG06A28-510	51 $\pm$ 20%	0.255	9.5	1.08	1.04
ABG06A28-620	62 $\pm$ 20%	0.332	7.7	0.98	0.92
ABG06A28-680	68 $\pm$ 20%	0.347	7.7	0.98	0.89
ABG06A28-750	75 $\pm$ 20%	0.395	7.7	0.93	0.83
ABG06A28-820	82 $\pm$ 20%	0.428	7.7	0.93	0.80
ABG06A28-910	91 $\pm$ 20%	0.486	7.7	0.82	0.75
ABG06A28-101	100 $\pm$ 20%	0.524	7.1	0.77	0.72
ABG06A45-R82	0.82 $\pm$ 30%	0.007	140	10.71	6.08
ABG06A45-1R0	1.0 $\pm$ 30%	0.010	100	10.15	5.29
ABG06A45-1R2	1.2 $\pm$ 30%	0.010	100	8.60	5.56
ABG06A45-1R5	1.5 $\pm$ 30%	0.011	65	9.06	5.10
ABG06A45-1R8	1.8 $\pm$ 30%	0.011	74	7.83	5.10
ABG06A45-2R2	2.2 $\pm$ 30%	0.013	52	6.95	4.74
ABG06A45-2R3	2.3 $\pm$ 30%	0.020	60	6.18	3.61



### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz,1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Min Self-resonant Frequency(MHz)	Saturation Current Isat (A)	Heat Rating Current Irms (A)
ABG06A45-2R7	2.7 $\pm$ 30%	0.014	38	5.92	4.43
ABG06A45-3R0	3.0 $\pm$ 30%	0.019	35	5.77	3.91
ABG06A45-3R3	3.3 $\pm$ 30%	0.020	32	6.08	3.81
ABG06A45-3R6	3.6 $\pm$ 30%	0.020	28	5.41	3.81
ABG06A45-4R3	4.3 $\pm$ 20%	0.021	23	4.58	3.61
ABG06A45-4R7	4.7 $\pm$ 20%	0.024	24	5.12	3.40
ABG06A45-5R1	5.1 $\pm$ 20%	0.024	23	4.53	3.40
ABG06A45-5R6	5.6 $\pm$ 20%	0.027	23	4.27	3.24
ABG06A45-6R2	6.2 $\pm$ 20%	0.030	26	4.56	3.09
ABG06A45-6R8	6.8 $\pm$ 20%	0.030	20	4.02	3.09
ABG06A45-7R5	7.5 $\pm$ 20%	0.033	18	3.61	2.99
ABG06A45-8R2	8.2 $\pm$ 20%	0.041	21	4.02	2.68
ABG06A45-9R1	9.1 $\pm$ 20%	0.041	17	3.45	2.68
ABG06A45-100	10 $\pm$ 20%	0.046	15	3.30	2.52
ABG06A45-120	12 $\pm$ 20%	0.056	13	2.88	2.27
ABG06A45-150	15 $\pm$ 20%	0.065	12	2.58	2.11
ABG06A45-180	18 $\pm$ 20%	0.078	10	2.27	1.91
ABG06A45-220	22 $\pm$ 20%	0.085	10	2.11	1.85
ABG06A45-270	27 $\pm$ 20%	0.098	9.2	1.96	1.70
ABG06A45-300	30 $\pm$ 20%	0.127	7.8	1.75	1.55
ABG06A45-330	33 $\pm$ 20%	0.132	7.8	1.70	1.49
ABG06A45-360	36 $\pm$ 20%	0.166	7.8	1.67	1.44
ABG06A45-390	39 $\pm$ 20%	0.173	7.8	1.55	1.29
ABG06A45-430	43 $\pm$ 20%	0.193	7.7	1.68	1.24
ABG06A45-470	47 $\pm$ 20%	0.193	6.4	1.44	1.24
ABG06A45-510	51 $\pm$ 20%	0.199	6.4	1.39	1.18
ABG06A45-560	56 $\pm$ 20%	0.213	6.4	1.34	1.13
ABG06A45-620	62 $\pm$ 20%	0.226	6.4	1.29	1.13
ABG06A45-680	68 $\pm$ 20%	0.278	6.4	1.24	1.03
ABG06A45-750	75 $\pm$ 20%	0.293	5	1.18	0.98
ABG06A45-820	82 $\pm$ 20%	0.328	4.9	1.08	0.93
ABG06A45-910	91 $\pm$ 20%	0.345	4.9	1.03	0.88
ABG06A45-101	100 $\pm$ 20%	0.416	4.2	0.98	0.82
ABG06A45-121	120 $\pm$ 20%	0.466	4.2	0.88	0.79
ABG06A45-151	150 $\pm$ 20%	0.559	4.2	0.82	0.72
ABG06A45-221	220 $\pm$ 20%	0.803	3.5	0.72	0.61
ABG06A45-331	330 $\pm$ 20%	1.223	2.8	0.59	0.59
ABG06A45-471	470 $\pm$ 20%	2.600	2.1	0.20	0.20
ABG08A40-R82	0.82 $\pm$ 30%	0.007	94	14.21	6.49
ABG08A40-1R0	1.0 $\pm$ 30%	0.007	89	10.15	6.49

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz,1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Min Self-resonant Frequency(MHz)	Saturation Current Isat (A)	Heat Rating Current Irms (A)
ABG08A40-1R5	1.5 $\pm$ 30%	0.010	67	8.39	5.82
ABG08A40-2R0	2.0 $\pm$ 30%	0.011	43	9.53	5.30
ABG08A40-2R2	2.2 $\pm$ 30%	0.011	41	7.31	5.30
ABG08A40-3R0	3.0 $\pm$ 30%	0.013	32	6.28	4.84
ABG08A40-3R3	3.3 $\pm$ 30%	0.016	27	6.70	4.53
ABG08A40-3R6	3.6 $\pm$ 30%	0.016	30	7.75	4.48
ABG08A40-3R9	3.9 $\pm$ 30%	0.016	26	5.92	4.48
ABG08A40-4R7	4.7 $\pm$ 30%	0.018	24	6.08	4.22
ABG08A40-5R1	5.1 $\pm$ 30%	0.018	22	4.84	4.17
ABG08A40-5R6	5.6 $\pm$ 30%	0.020	24	6.18	3.97
ABG08A40-6R2	6.2 $\pm$ 30%	0.020	20	4.58	3.97
ABG08A40-6R8	6.8 $\pm$ 20%	0.023	20	4.69	3.71
ABG08A40-8R2	8.2 $\pm$ 20%	0.024	17	4.33	3.55
ABG08A40-100	10 $\pm$ 20%	0.027	15	3.71	3.40
ABG08A40-150	15 $\pm$ 20%	0.045	12	3.04	2.68
ABG08A40-180	18 $\pm$ 20%	0.050	11	2.78	2.47
ABG08A40-220	22 $\pm$ 20%	0.066	9.5	2.47	2.16
ABG08A40-270	27 $\pm$ 20%	0.075	9.2	2.21	2.06
ABG08A40-330	33 $\pm$ 20%	0.093	7.8	2.11	1.85
ABG08A40-360	36 $\pm$ 20%	0.098	7.8	2.06	1.80
ABG08A40-390	39 $\pm$ 20%	0.103	7.8	2.01	1.75
ABG08A40-430	43 $\pm$ 20%	0.108	7.8	1.96	1.70
ABG08A40-470	47 $\pm$ 20%	0.130	6.4	1.80	1.60
ABG08A40-510	51 $\pm$ 20%	0.136	6.4	1.75	1.55
ABG08A40-560	56 $\pm$ 20%	0.142	6.4	1.60	1.49
ABG08A40-620	62 $\pm$ 20%	0.175	6.4	1.55	1.34
ABG08A40-680	68 $\pm$ 20%	0.188	4.9	1.49	1.29
ABG08A40-750	75 $\pm$ 20%	0.203	4.9	1.39	1.24
ABG08A40-820	82 $\pm$ 20%	0.216	5.9	1.34	1.18
ABG08A40-910	91 $\pm$ 20%	0.261	4.9	1.24	1.08
ABG08A40-101	100 $\pm$ 20%	0.279	4.2	1.18	1.03
ABG08A40-121	120 $\pm$ 20%	0.321	3.5	1.08	0.98
ABG08A40-151	150 $\pm$ 20%	0.395	3.5	1.13	0.88
ABG08A40-221	220 $\pm$ 20%	0.576	3.5	0.88	0.82
ABG08A40-331	330 $\pm$ 20%	0.856	2.8	0.70	0.66
ABG08A40-471	470 $\pm$ 20%	1.500	2.1	0.45	0.45
ABG08A40-561	560 $\pm$ 20%	2.000	1.6	0.30	0.30
ABG08A40-681	680 $\pm$ 20%	2.200	1.2	0.25	0.25
ABG08A40-821	820 $\pm$ 20%	3.000	0.8	0.20	0.20
ABG08A40-102	1000 $\pm$ 20%	4.000	0.5	0.15	0.15

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