

### 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) .
- 35% high current rating than conventional inductors of equal size.
- Takes up less PCB real estate and save more power.
- RoHS compliance.

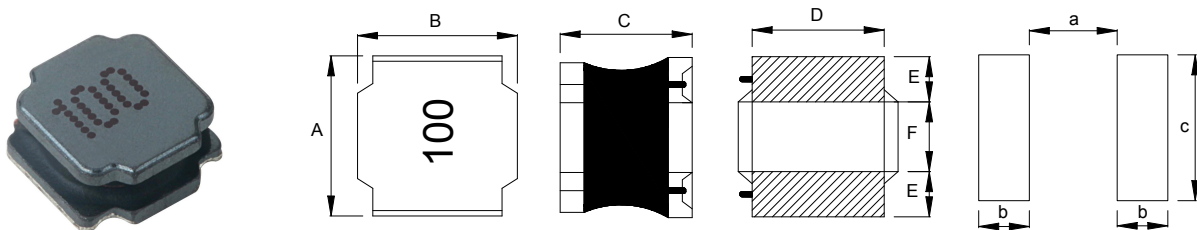
#### Applications

- 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 IM3536 LCR meter or equivalent.
- Operating temperature range -40°C to +125°C.(Including self - temperature rise).
- DC current(Irms)that will cause an approximate  $\Delta T$  of 40°C.
- DC current(Isat)that will cause L0 to drop approximately 35%.

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



Type	A	B	C	D Typ.	E Typ.	F Typ.	a Typ.	b Typ.	c Typ.	Q'TY/Reel
ABG03A10	3.0±0.2	3.0±0.2	1.1Max	2.5	0.9	1.2	0.9	1.2	2.8	2000
ABG03A12	3.0±0.2	3.0±0.2	1.25Max	2.9	0.9	1.2	0.9	1.2	3.1	2000
ABG03A15	3.0±0.2	3.0±0.2	1.5Max	2.55	0.9	1.2	0.9	1.2	3.1	2000
ABG04A10	4.0±0.2	4.0±0.2	1.1Max	3.5	1.2	1.6	1.2	1.5	3.8	4500
ABG04A12	4.0±0.2	4.0±0.2	1.3Max	3.5	1.2	1.6	1.3	1.5	3.8	4500
ABG04A18	4.0±0.2	4.0±0.2	1.8Max	3.5	1.2	1.6	1.2	1.5	3.8	3000
ABG04A20	4.0±0.2	4.0±0.2	2.0Max	3.5	1.2	1.6	1.2	1.5	3.8	3000
ABG04A26	4.0±0.2	4.0±0.2	2.6Max	3.5	1.2	1.6	1.2	1.5	3.8	3000
ABG04A30	4.0±0.2	4.0±0.2	3.0Max	3.5	1.35	1.3	1.0	1.65	3.8	2000
ABG04A35	4.0±0.2	4.0±0.2	3.5Max	3.3	0.95	2.1	1.9	1.1	3.7	2000
ABG05A20	5.0±0.2	5.0±0.2	2.0Max	4.0	1.35	2.3	2.0	1.65	4.3	2500
ABG05A40	5.0±0.2	5.0±0.2	4.0Max	4.0	1.5	2.0	1.7	1.8	4.3	1500
ABG05A45	5.0±0.2	5.0±0.2	4.5Max	4.0	1.5	2.0	1.7	1.8	4.3	1500
ABG06A10	6.0±0.3	6.0±0.3	1.1Max	4.9	1.65	2.7	2.4	1.95	5.2	2500
ABG06A12	6.0±0.3	6.0±0.3	1.3Max	4.9	1.65	2.7	2.4	1.95	5.2	2500
ABG06A20	6.0±0.3	6.0±0.3	2.0Max	4.9	1.65	2.7	2.4	1.95	5.2	2500
ABG06A28	6.0±0.3	6.0±0.3	2.8Max	4.9	1.65	2.7	2.4	1.95	5.2	2000
ABG06A40	6.0±0.3	6.0±0.3	4.0Max	4.9	1.65	2.7	2.4	1.95	5.2	2000
ABG06A45	6.0±0.3	6.0±0.3	4.5Max	4.9	1.65	2.7	2.4	1.95	5.2	1500
ABG06A55	6.0±0.3	6.0±0.3	5.7Max	4.9	1.65	2.7	2.4	1.95	5.2	1000
ABG08A40	8.0±0.3	8.0±0.3	4.2Max	6.3	2.45	3.1	2.8	2.75	6.6	1000
ABG08A50	8.0±0.3	8.0±0.3	5.0Max	6.3	2.45	3.1	2.8	2.75	6.6	700
ABG08A60	8.0±0.3	8.0±0.3	6.0Max	6.3	2.45	3.1	2.8	2.75	6.6	700
ABG08A65	8.0±0.3	8.0±0.3	6.8Max	6.3	2.45	3.1	2.8	2.75	6.6	700

### Part Number Code

ABG   03   A   10   M   1R0  
 A       B       C       D       E       F

A: Series Name                      Power Inductors  
 B: Dimensions(mm)                03: 3.0×3.0  
 C: Materials                         A Type  
 D: Thickness(mm)                 10: 1.1 Max  
 E: Tolerance                         M: ±20%    N: ±30%  
 F: Inductance                        1R0=1.0uH

### ABG Series

Part Number	Inductance(μH) @100KHz/1V	DC Resistance (Ω)±30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current Irms (A) Max.	Saturation Current Isat (A) Max.
ABG03A10M1R0	1.0	0.063	180	1.49	1.44
ABG03A10M1R2	1.2	0.065	137	1.45	1.25
ABG03A10M1R5	1.5	0.077	120	1.34	1.31
ABG03A10M2R2	2.2	0.106	100	1.12	1.18
ABG03A10M2R7	2.7	0.125	90	1.05	1.03
ABG03A10M3R3	3.3	0.139	74	0.99	1.00
ABG03A10M3R6	3.6	0.159	67	0.93	0.98
ABG03A10M4R7	4.7	0.216	59	0.79	0.77
ABG03A10M5R6	5.6	0.248	40	0.70	0.58
ABG03A10M6R8	6.8	0.293	42	0.68	0.57
ABG03A10M8R2	8.2	0.400	23	0.58	0.55
ABG03A10M100	10.0	0.385	39	0.60	0.57
ABG03A10M120	12.0	0.486	36	0.54	0.44
ABG03A10M150	15.0	0.587	30	0.48	0.43
ABG03A10M220	22.0	0.896	28	0.39	0.36
ABG03A10M270	27.0	1.040	25	0.36	0.31
ABG03A10M330	33.0	1.493	18	0.31	0.30
ABG03A10M390	39.0	1.685	18	0.29	0.29
ABG03A10M430	43.0	1.733	18	0.28	0.24
ABG03A10M470	47.0	1.878	18	0.27	0.23
ABG03A10M510	51.0	2.119	18	0.26	0.22
ABG03A10M560	56.0	2.234	16	0.25	0.22
ABG03A12NR22	0.22	0.017	321	3.00	5.30
ABG03A12NR82	0.82	0.029	180	2.54	2.11
ABG03A12M1R0	1.0	0.039	120	2.27	1.93
ABG03A12M1R2	1.2	0.043	120	2.07	2.29
ABG03A12M1R5	1.5	0.043	110	2.07	1.67
ABG03A12M1R8	1.8	0.053	90	1.90	1.56
ABG03A12M2R2	2.2	0.072	84	1.60	1.24
ABG03A12M2R4	2.4	0.065	80	1.55	1.18
ABG03A12M2R7	2.7	0.081	65	1.52	1.17
ABG03A12M3R3	3.3	0.096	64	1.40	1.08
ABG03A12M3R6	3.6	0.100	36	1.36	1.05

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current Irms (A) Max.	Saturation Current Isat (A) Max.
ABG03A12M3R9	3.9	0.145	61	1.24	1.00
ABG03A12M4R7	4.7	0.116	61	1.24	0.93
ABG03A12M6R8	6.8	0.183	61	1.01	0.77
ABG03A12M100	10.0	0.255	42	0.85	0.62
ABG03A12M120	12.0	0.332	32	0.75	0.49
ABG03A12M150	15.0	0.347	27	0.73	0.46
ABG03A12M180	18.0	0.524	25	0.60	0.44
ABG03A12M220	22.0	0.621	23	0.55	0.43
ABG03A12M270	27.0	0.741	21	0.50	0.41
ABG03A12M330	33.0	0.842	18	0.47	0.37
ABG03A12M360	36.0	0.915	18	0.45	0.35
ABG03A12M390	39.0	1.281	18	0.38	0.31
ABG03A12M470	47.0	1.329	14	0.37	0.28
ABG03A12M560	56.0	1.329	14	0.37	0.27
ABG03A12M620	62.0	1.473	12	0.36	0.26
ABG03A12M680	68.0	1.608	12	0.34	0.25
ABG03A12M820	82.0	2.446	12	0.28	0.23
ABG03A12M101	100.0	2.754	12	0.26	0.22
ABG03A15NR50	0.5	0.030	162	2.6	3.9
ABG03A15NR68	0.68	0.035	152	2.65	2.65
ABG03A15M1R0	1.0	0.036	150	2.35	2.37
ABG03A15M1R2	1.2	0.039	110	2.01	2.28
ABG03A15M1R5	1.5	0.048	100	1.75	2.37
ABG03A15M1R8	1.8	0.048	92	1.75	1.80
ABG03A15M2R2	2.2	0.058	86	1.65	1.65
ABG03A15M2R7	2.7	0.072	64	1.47	1.57
ABG03A15M3R3	3.3	0.080	68	1.40	1.36
ABG03A15M3R6	3.6	0.101	59	1.24	1.32
ABG03A15M3R9	3.9	0.105	47	1.20	1.20
ABG03A15M4R3	4.3	0.110	53	1.17	1.24
ABG03A15M4R7	4.7	0.120	46	1.12	1.13
ABG03A15M5R1	5.1	0.120	49	1.12	1.11
ABG03A15M6R2	6.2	0.187	46	0.89	1.03
ABG03A15M6R8	6.8	0.193	39	0.88	0.88
ABG03A15M100	10.0	0.241	41	0.79	0.74
ABG03A15M120	12.0	0.308	32	0.70	0.72
ABG03A15M150	15.0	0.337	30	0.67	0.68
ABG03A15M180	18.0	0.414	23	0.61	0.58
ABG03A15M220	22.0	0.443	23	0.57	0.52
ABG03A15M270	27.0	0.730	22	0.45	0.48
ABG03A15M330	33.0	0.790	20	0.44	0.45
ABG03A15M390	39.0	0.958	14	0.40	0.42

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG03A15M430	43.0	1.021	16	0.38	0.38
ABG03A15M470	47.0	1.230	14	0.36	0.36
ABG03A15M560	56.0	1.233	13	0.35	0.34
ABG03A15M620	62.0	1.377	13	0.33	0.34
ABG03A15M680	68.0	1.750	11	0.24	0.29
ABG03A15M101	100.0	3.110	7.2	0.21	0.23
ABG03A15M151	150.0	3.800	4.5	0.19	0.18
ABG04A10M1R0	1.0	54.32	116	1.95	2.06
ABG04A10M1R5	1.5	67.90	94	1.75	1.73
ABG04A10M2R2	2.2	82.45	73	1.54	1.23
ABG04A10M3R3	3.3	97.00	58	1.44	1.13
ABG04A10M4R7	4.7	135.8	47	1.23	0.97
ABG04A10M6R8	6.8	194.0	38	1.03	0.82
ABG04A10M100	10.0	291.0	31	0.77	0.63
ABG04A10M150	15.0	417.1	24	0.61	0.55
ABG04A10M220	22.0	552.9	19	0.51	0.46
ABG04A12NR82	0.82	0.048	150	1.70	3.64
ABG04A12M1R0	1.0	0.050	120	1.65	2.61
ABG04A12M1R5	1.5	0.062	90	1.50	2.16
ABG04A12M1R8	1.8	0.077	88	1.36	2.54
ABG04A12M2R2	2.2	0.077	74	1.36	1.81
ABG04A12M2R7	2.7	0.087	71	1.29	1.96
ABG04A12M3R3	3.3	0.108	60	1.15	1.72
ABG04A12M3R6	3.6	0.106	57	1.15	1.24
ABG04A12M4R3	4.3	0.135	54	1.03	1.80
ABG04A12M4R7	4.7	0.120	50	1.08	1.18
ABG04A12M5R1	5.1	0.149	50	0.98	1.25
ABG04A12M5R6	5.6	0.140	42	1.00	1.00
ABG04A12M6R8	6.8	0.190	40	0.87	0.98
ABG04A12M100	10.0	0.255	33	0.79	0.82
ABG04A12M120	12.0	0.279	32	0.72	0.68
ABG04A12M150	15.0	0.327	25	0.66	0.58
ABG04A12M180	18.0	0.453	23	0.57	0.57
ABG04A12M220	22.0	0.453	20	0.57	0.56
ABG04A12M270	27.0	0.693	18	0.46	0.52
ABG04A12M330	33.0	0.780	17	0.43	0.43
ABG04A12M360	36.0	0.867	14	0.41	0.41
ABG04A12M390	39.0	1.059	16	0.38	0.57
ABG04A12M470	47.0	1.059	12	0.38	0.36
ABG04A12M560	56.0	1.204	11	0.34	0.34
ABG04A12M680	68.0	1.406	11	0.32	0.31

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG04A12M820	82.0	2.061	11	0.27	0.29
ABG04A12M101	100.0	2.128	9.4	0.26	0.26
ABG04A18NR47	0.47	0.014	155	4.00	4.30
ABG04A18NR68	0.68	0.020	128	3.30	4.90
ABG04A18M1R0	1.0	0.024	80	2.06	4.90
ABG04A18M1R5	1.5	0.030	65	1.80	3.35
ABG04A18M1R8	1.8	0.034	54	2.00	3.00
ABG04A18M2R2	2.2	0.045	52	1.65	2.70
ABG04A18M2R2	2.2	0.043	52	2.20	3.00
ABG04A18M3R3	3.3	0.067	44	1.27	2.52
ABG04A18M4R7	4.7	0.087	34	1.24	2.00
ABG04A18M6R8	6.8	0.106	29	1.09	1.49
ABG04A18M100	10.0	0.173	24	0.87	1.34
ABG04A18M150	15.0	0.241	19	0.67	0.97
ABG04A18M220	22.0	0.347	16	0.61	0.82
ABG04A18M330	33.0	0.510	12	0.50	0.67
ABG04A18M470	47.0	0.626	10	0.43	0.59
ABG04A18M680	68.0	0.963	8.3	0.33	0.48
ABG04A18M101	100.0	1.685	6.5	0.26	0.41
ABG04A18M151	150.0	2.407	5.5	0.23	0.32
ABG04A18M221	220.0	3.852	4.0	0.18	0.28
ABG04A20NR24	0.24	0.011	283	4.50	10.5
ABG04A20NR33	0.33	0.013	223	3.30	7.50
ABG04A20NR47	0.47	0.022	160	3.30	7.00
ABG04A20NR68	0.68	0.028	120	2.8	6.4
ABG04A20M1R0	1.0	0.027	75	2.21	5.00
ABG04A20M1R2	1.2	0.027	72	2.21	5.25
ABG04A20M1R5	1.5	0.035	71	2.04	4.45
ABG04A20M2R2	2.2	0.039	49	1.91	3.50
ABG04A20M3R3	3.3	0.067	44	1.44	3.30
ABG04A20M3R6	3.6	0.053	49	1.59	2.88
ABG04A20M4R7	4.7	0.072	42	1.38	2.42
ABG04A20M5R1	5.1	0.081	42	1.31	2.37
ABG04A20M5R6	5.6	0.087	30	1.26	2.27
ABG04A20M6R2	6.2	0.110	36	1.11	2.21
ABG04A20M6R8	6.8	0.125	33	1.07	2.20
ABG04A20M7R5	7.5	0.110	30	1.11	1.91
ABG04A20M8R2	8.2	0.120	27	1.07	1.80
ABG04A20M100	10.0	0.165	26	0.93	1.65
ABG04A20M120	12.0	0.168	26	0.91	1.55
ABG04A20M150	15.0	0.221	24	0.79	1.39

### ABG Series

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ABG04A20M220	22.0	0.337	15	0.64	1.08
ABG04A20M270	27.0	0.524	14	0.52	1.05
ABG04A20M330	33.0	0.530	11	0.50	0.88
ABG04A20M390	39.0	0.626	11	0.47	0.84
ABG04A20M430	43.0	0.636	10	0.46	0.79
ABG04A20M470	47.0	0.684	10	0.45	0.76
ABG04A20M510	51.0	0.722	10	0.43	0.72
ABG04A20M560	56.0	0.770	10	0.42	0.68
ABG04A20M620	62.0	0.867	9.6	0.40	0.67
ABG04A20M680	68.0	1.06	7.7	0.36	0.61
ABG04A20M750	75.0	1.16	7.7	0.35	0.70
ABG04A20M820	82.0	1.17	7.2	0.34	0.50
ABG04A20M101	100.0	1.55	6.3	0.31	0.48
ABG04A26M1R0	1.0	0.023	151	3.09	3.39
ABG04A26M1R2	1.2	0.029	120	2.36	3.19
ABG04A26M1R5	1.5	0.039	100	2.36	2.47
ABG04A26M2R2	2.2	0.039	96	2.06	2.16
ABG04A26M3R3	3.3	0.048	58	1.75	1.85
ABG04A26M4R7	4.7	0.053	46	1.64	1.49
ABG04A26M6R8	6.8	0.063	33	1.54	1.33
ABG04A26M100	10.0	0.082	26	1.33	1.03
ABG04A26M150	15.0	0.107	19	1.13	0.92
ABG04A26M220	22.0	0.160	13	0.92	0.62
ABG04A26M330	33.0	0.262	9	0.72	0.56
ABG04A26M470	47.0	0.291	6	0.67	0.41
ABG04A30NR47	0.47	0.008	184	5.20	7.80
ABG04A30NR68	0.68	0.010	130	4.56	6.80
ABG04A30NR91	0.91	0.021	100	3.24	6.44
ABG04A30M1R0	1.0	0.018	70	4.15	5.26
ABG04A30M1R2	1.2	0.024	80	3.05	5.97
ABG04A30M1R5	1.5	0.029	62	3.01	4.99
ABG04A30M1R8	1.8	0.029	60	3.01	5.56
ABG04A30M2R2	2.2	0.033	52	2.65	4.90
ABG04A30M3R3	3.3	0.039	38	2.47	3.40
ABG04A30M3R6	3.6	0.040	37	2.40	3.00
ABG04A30M3R9	3.9	0.057	32	2.10	3.00
ABG04A30M4R3	4.3	0.053	37	2.16	3.04
ABG04A30M4R7	4.7	0.058	31	2.06	2.99
ABG04A30M5R6	5.6	0.065	30	2.01	2.45
ABG04A30M6R2	6.2	0.067	29	1.91	2.58
ABG04A30M6R8	6.8	0.087	24	1.65	2.83

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG04A30M7R5	7.5	0.081	26	1.70	2.27
ABG04A30M8R2	8.2	0.087	26	1.65	2.16
ABG04A30M9R1	9.1	0.091	23	1.60	2.06
ABG04A30M100	10.0	0.100	21	1.55	2.01
ABG04A30M120	12.0	0.130	18	1.34	1.75
ABG04A30M150	15.0	0.190	16	1.14	1.70
ABG04A30M180	18.0	0.193	10	1.13	1.44
ABG04A30M220	22.0	0.225	10	1.03	1.34
ABG04A30M330	33.0	0.318	10	0.84	1.13
ABG04A30M360	36.0	0.322	9.8	0.85	1.08
ABG04A30M390	39.0	0.419	10	0.75	1.06
ABG04A30M430	43.0	0.424	9.2	0.75	1.03
ABG04A30M470	47.0	0.428	8.4	0.74	0.98
ABG04A30M510	51.0	0.453	8.4	0.72	0.93
ABG04A30M560	56.0	0.534	8.4	0.67	0.88
ABG04A30M620	62.0	0.798	7.0	0.55	0.82
ABG04A30M680	68.0	0.836	7.0	0.54	0.77
ABG04A30M750	75.0	0.982	6.3	0.49	0.72
ABG04A30M820	82.0	1.021	5.6	0.48	0.68
ABG04A30M910	91.0	1.059	5.6	0.47	0.67
ABG04A30M101	100.0	1.107	5.6	0.46	0.62
ABG04A30M121	120.0	1.300	5.4	0.43	0.57
ABG04A30M151	150.0	1.800	4	0.30	0.50
ABG04A30M471	470.0	7.200	2	0.20	0.30
ABG04A30M501	500.0	6.944	2	0.15	0.28
ABG04A30M681	680.0	7.580	1.2	0.14	0.19
ABG04A35NR47	0.47	0.008	176	5.2	7.8
ABG04A35NR68	0.68	0.010	132	4.56	6.8
ABG04A35M1R0	1.0	0.018	76	3.90	6.39
ABG04A35M1R2	1.2	0.021	70	3.65	6.14
ABG04A35M1R5	1.5	0.024	62	3.34	5.53
ABG04A35M1R8	1.8	0.026	52	3.20	4.60
ABG04A35M2R2	2.2	0.030	52	3.04	4.41
ABG04A35M3R3	3.3	0.044	38	2.53	3.55
ABG04A35M4R7	4.7	0.062	31	2.13	3.04
ABG04A35M6R8	6.8	0.083	24	1.92	2.53
ABG04A35M8R2	8.2	0.082	26	1.82	2.13
ABG04A35M100	10.0	0.106	21	1.57	2.08
ABG04A35M150	15.0	0.175	16	1.26	1.67
ABG04A35M220	22.0	0.220	10	1.11	1.32
ABG04A35M330	33.0	0.320	10	0.91	1.11

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG04A35M470	47.0	0.450	8.4	0.76	0.96
ABG04A35M680	68.0	0.833	7.0	0.55	0.76
ABG04A35M101	100.0	1.055	5.6	0.45	0.66
ABG04A35M151	150.0	1.740	4.0	0.35	0.55
ABG05A12M1R0	1.0	0.055	103	2.06	4.53
ABG05A12M1R5	1.5	0.070	68	1.95	3.81
ABG05A12M2R2	2.2	0.087	50	1.75	3.19
ABG05A12M3R3	3.3	0.122	34	1.44	2.47
ABG05A12M4R7	4.7	0.159	31	1.33	2.26
ABG05A12M6R8	6.8	0.238	22	1.03	1.75
ABG05A12M100	10.0	0.333	17	0.87	1.44
ABG05A12M150	15.0	0.422	13	0.82	1.23
ABG05A12M220	22.0	0.757	16	0.61	0.90
ABG05A20NR22	0.22	0.009	280	5.30	9.00
ABG05A20NR24	0.24	0.009	248	5.30	8.00
ABG05A20NR47	0.47	0.013	160	4.60	6.15
ABG05A20NR56	0.56	0.017	137	3.80	8.50
ABG05A20NR68	0.68	0.017	120	4.00	5.50
ABG05A20NR75	0.75	0.017	117	4.00	5.50
ABG05A20M1R0	1.0	0.020	97	3.81	4.46
ABG05A20M1R2	1.2	0.022	83	3.55	4.50
ABG05A20M1R5	1.5	0.026	80	3.30	3.97
ABG05A20M2R2	2.2	0.033	61	2.99	3.97
ABG05A20M2R7	2.7	0.038	52	2.70	2.90
ABG05A20M3R0	3.0	0.038	49	2.70	2.55
ABG05A20M3R3	3.3	0.042	46	2.47	3.25
ABG05A20M3R6	3.6	0.043	43	2.50	2.80
ABG05A20M3R9	3.9	0.043	40	2.50	2.30
ABG05A20M4R3	4.3	0.057	37	2.20	2.50
ABG05A20M4R7	4.7	0.057	33	2.20	2.50
ABG05A20M5R1	5.1	0.064	32	2.05	2.25
ABG05A20M5R6	5.6	0.064	32	2.05	2.30
ABG05A20M6R8	6.8	0.084	30	1.75	1.85
ABG05A20M7R5	7.5	0.090	26	1.75	1.85
ABG05A20M8R2	8.2	0.098	26	1.65	1.85
ABG05A20M9R1	9.1	0.110	24	1.55	1.70
ABG05A20M100	10.0	0.106	24	1.55	1.79
ABG05A20M120	12.0	0.140	22	1.40	1.50
ABG05A20M150	15.0	0.159	20	1.29	1.48
ABG05A20M180	18.0	0.200	16	1.15	1.25
ABG05A20M220	22.0	0.226	16	1.08	1.15



### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG05A20M330	33.0	0.356	13	0.85	1.00
ABG05A20M470	47.0	0.505	11	0.72	0.83
ABG05A20M560	56.0	0.630	6	0.70	0.77
ABG05A20M680	68.0	0.852	8.8	0.55	0.72
ABG05A20M820	82.0	0.890	6	0.50	0.65
ABG05A20M101	100.0	1.021	6	0.50	0.59
ABG05A20M121	120.0	1.350	6	0.40	0.42
ABG05A20M201	200.0	2.000	4.5	0.40	0.30
ABG05A40NR22	0.22	0.006	289	6.50	18.0
ABG05A40NR24	0.24	0.006	251	6.40	15.7
ABG05A40NR47	0.47	0.007	171	6.60	10.0
ABG05A40M1R0	1.0	0.012	117	4.90	7.35
ABG05A40M1R2	1.2	0.016	110	4.15	6.50
ABG05A40M1R5	1.5	0.015	60	4.58	6.30
ABG05A40M1R8	1.8	0.016	55	4.15	5.50
ABG05A40M2R2	2.2	0.019	42	4.07	4.90
ABG05A40M2R7	2.7	0.022	37	3.60	4.30
ABG05A40M3R0	3.0	0.022	37	3.60	4.15
ABG05A40M3R3	3.3	0.024	32	3.40	3.95
ABG05A40M3R6	3.6	0.026	30	3.30	3.80
ABG05A40M3R9	3.9	0.027	29	3.20	3.55
ABG05A40M4R7	4.7	0.030	28	3.19	3.50
ABG05A40M5R6	5.6	0.035	27	2.80	3.00
ABG05A40M6R8	6.8	0.041	21	2.50	2.90
ABG05A40M8R2	8.2	0.048	20	2.30	2.70
ABG05A40M100	10.0	0.060	18	2.16	2.35
ABG05A40M120	12.0	0.077	14	2.00	2.20
ABG05A40M150	15.0	0.085	13	2.00	2.37
ABG05A40M180	18.0	0.119	12	1.45	1.70
ABG05A40M220	22.0	0.129	9.0	1.50	1.60
ABG05A40M270	27.0	0.188	9.8	1.10	1.52
ABG05A40M330	33.0	0.184	7.0	1.20	1.30
ABG05A40M470	47.0	0.272	6.0	1.00	1.10
ABG05A40M510	51.0	0.380	6	1.00	1.00
ABG05A40M560	56.0	0.380	6	0.80	1.05
ABG05A40M680	68.0	0.400	6	0.80	0.90
ABG05A40M750	75.0	0.450	6	0.72	0.85
ABG05A40M101	100.0	0.560	5	0.7	0.75
ABG05A40M151	150.0	0.750	3.7	0.60	0.65
ABG05A40M221	220.0	1.400	3	0.40	0.48
ABG05A40M301	300.0	2.000	2.7	0.35	0.50

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG05A40M331	330.0	2.100	2.7	0.40	0.42
ABG05A40M471	470.0	3.000	2.7	0.35	0.37
ABG05A40M561	560.0	3.780	1.52	0.31	0.31
ABG05A40M681	680.0	3.900	1.6	0.25	0.30
ABG05A45N1R5	1.5	0.017	78.0	5.2	7.4
ABG05A45M2R2	2.2	0.022	50.0	4.7	6.4
ABG05A45M3R3	3.3	0.027	36.0	4.2	6.4
ABG05A45M100	10.0	0.061	17.0	2.5	3.2
ABG05A45M220	22.0	0.125	10.0	1.55	2.0
ABG06A10M1R5	1.5	0.087	91	1.95	2.47
ABG06A10M2R2	2.2	0.107	64	1.75	1.95
ABG06A10M3R3	3.3	0.131	51	1.54	1.64
ABG06A10M4R7	4.7	0.160	42	1.44	1.33
ABG06A10M6R8	6.8	0.213	30	1.23	1.23
ABG06A10M100	10.0	0.261	25	1.13	1.03
ABG06A10M220	22.0	0.563	12	0.72	0.66
ABG06A12N1R0	1.0	0.054	80	2.36	3.62
ABG06A12N1R5	1.5	0.073	65	2.06	2.81
ABG06A12N2R5	2.5	0.087	45	1.85	2.16
ABG06A12N3R3	3.3	0.102	42	1.75	1.85
ABG06A12N4R7	4.7	0.121	36	1.59	1.64
ABG06A12N5R3	5.3	0.121	34	1.59	1.54
ABG06A12N6R8	6.8	0.160	30	1.39	1.33
ABG06A12M100	10.0	0.194	22	1.23	1.03
ABG06A12M150	15.0	0.286	18	0.82	0.82
ABG06A12M220	22.0	0.451	12	0.66	0.78
ABG06A12M330	33.0	0.563	8	0.56	0.60
ABG06A12M470	47.0	0.786	6	0.47	0.53
ABG06A12M680	68.0	1.125	3	0.42	0.45
ABG06A12M101	100.0	1.620	1	0.33	0.36
ABG06A20NR50	0.5	0.012	130	4.17	5.05
ABG06A20NR68	0.68	0.016	120	3.91	7.73
ABG06A20NR82	0.82	0.016	110	3.91	6.80
ABG06A20M1R0	1.0	0.019	94	3.35	4.27
ABG06A20M1R2	1.2	0.021	88	3.30	6.08
ABG06A20M1R5	1.5	0.021	79	3.30	4.38
ABG06A20M1R8	1.8	0.027	68	2.83	5.00
ABG06A20M2R0	2.0	0.033	64	2.52	4.43
ABG06A20M2R2	2.2	0.027	61	2.83	3.86
ABG06A20M2R7	2.7	0.033	56	2.68	4.02
ABG06A20M3R3	3.3	0.033	51	2.68	3.24

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG06A20M3R9	3.9	0.047	46	2.16	3.35
ABG06A20M4R3	4.3	0.047	44	2.16	2.78
ABG06A20M4R7	4.7	0.056	41	2.06	3.09
ABG06A20M5R6	5.6	0.056	36	1.96	2.47
ABG06A20M6R2	6.2	0.076	35	1.85	2.37
ABG06A20M6R8	6.8	0.076	31	1.85	2.27
ABG06A20M8R2	8.2	0.101	28	1.44	2.16
ABG06A20M100	10.0	0.101	27	1.44	1.80
ABG06A20M120	12.0	0.116	23	1.39	1.75
ABG06A20M150	15.0	0.139	21	1.24	1.55
ABG06A20M180	18.0	0.168	19	1.13	1.27
ABG06A20M220	22.0	0.196	16	1.03	1.29
ABG06A20M330	33.0	0.300	11	0.84	0.95
ABG06A20M470	47.0	0.430	10	0.80	0.70
ABG06A28NR82	0.82	0.012	97	5.2	6.50
ABG06A28M1R0	1.0	0.010	70	5.20	5.75
ABG06A28M1R2	1.2	0.013	69	4.58	6.40
ABG06A28M1R5	1.5	0.012	65	4.72	6.18
ABG06A28M2R2	2.2	0.018	56	4.21	5.25
ABG06A28M2R7	2.7	0.019	48	3.86	3.91
ABG06A28M3R3	3.3	0.024	41	3.58	3.74
ABG06A28M4R7	4.7	0.029	35	3.17	3.09
ABG06A28M5R1	5.1	0.033	33	2.98	3.66
ABG06A28M6R2	6.2	0.039	30	2.66	3.14
ABG06A28M6R8	6.8	0.045	27	2.47	2.94
ABG06A28M8R2	8.2	0.053	24	2.32	2.68
ABG06A28M9R1	9.1	0.058	24	2.21	2.63
ABG06A28M100	10.0	0.069	23	2.01	2.10
ABG06A28M120	12.0	0.077	18	1.91	1.85
ABG06A28M150	15.0	0.120	18	1.49	1.80
ABG06A28M180	18.0	0.116	15	1.49	1.57
ABG06A28M220	22.0	0.135	14	1.44	1.65
ABG06A28M270	27.0	0.149	13	1.36	1.55
ABG06A28M330	33.0	0.200	12	1.26	1.39
ABG06A28M360	36.0	0.207	11	1.16	1.29
ABG06A28M390	39.0	0.216	11	1.13	1.29
ABG06A28M430	43.0	0.226	11	1.10	1.24
ABG06A28M470	47.0	0.315	9.5	1.09	1.18
ABG06A28M560	56.0	0.345	8.2	0.89	1.05
ABG06A28M510	51.0	0.255	9.5	1.04	1.08
ABG06A28M620	62.0	0.332	7.7	0.92	0.98

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG06A28M680	68.0	0.347	7.7	0.89	0.98
ABG06A28M750	75.0	0.395	7.7	0.83	0.93
ABG06A28M820	82.0	0.428	7.7	0.80	0.93
ABG06A28M910	91.0	0.486	7.7	0.75	0.82
ABG06A28M101	100.0	0.524	7.1	0.72	0.77
ABG06A28M401	400.0	2.160	2.8	0.40	0.30
ABG06A40M1R0	1.0	0.0078	97	6.48	9.27
ABG06A40M100	10.0	0.047	16	2.52	3.29
ABG06A40M120	12.0	0.056	14	2.26	2.88
ABG06A40M150	15.0	0.066	13	2.11	2.57
ABG06A40M220	22.0	0.086	10	1.85	2.11
ABG06A40M330	33.0	0.133	9.9	1.49	1.69
ABG06A40M560	56.0	0.214	6.6	1.13	1.33
ABG06A40M680	68.0	0.276	5.6	0.97	1.18
ABG06A40M471	470.0	1.740	2.0	0.48	0.43
ABG06A45NR47	0.47	0.006	155	6.50	15.0
ABG06A45NR56	0.56	0.006	142	6.50	14.0
ABG06A45NR68	0.68	0.006	99	5.70	11.0
ABG06A45NR82	0.82	0.007	140	6.08	10.71
ABG06A45M1R0	1.0	0.010	100	5.29	10.15
ABG06A45M1R2	1.2	0.010	100	5.56	8.60
ABG06A45M1R3	1.3	0.010	100	5.40	8.35
ABG06A45M1R5	1.5	0.011	65	5.10	9.06
ABG06A45M1R8	1.8	0.011	74	5.10	7.83
ABG06A45M2R2	2.2	0.014	52	4.74	6.95
ABG06A45M2R3	2.3	0.020	60	3.61	6.18
ABG06A45M2R7	2.7	0.020	38	4.43	5.92
ABG06A45M3R0	3.0	0.019	35	3.91	5.77
ABG06A45M3R3	3.3	0.020	32	3.81	6.08
ABG06A45M3R6	3.6	0.020	28	3.81	5.41
ABG06A45M4R3	4.3	0.021	23	3.61	4.58
ABG06A45M4R5	4.5	0.026	24	3.30	4.97
ABG06A45M4R7	4.7	0.024	24	3.40	5.12
ABG06A45M5R1	5.1	0.024	23	3.40	4.53
ABG06A45M5R6	5.6	0.027	23	3.24	4.27
ABG06A45M6R2	6.2	0.030	26	3.09	4.56
ABG06A45M6R3	6.3	0.031	26	3.00	4.43
ABG06A45M6R8	6.8	0.030	20	3.09	4.02
ABG06A45M7R5	7.5	0.033	18	2.99	3.61
ABG06A45M8R2	8.2	0.041	21	2.68	4.02
ABG06A45M9R1	9.1	0.041	17	2.68	3.45

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG06A45M100	10.0	0.046	15	2.52	3.30
ABG06A45M120	12.0	0.056	13	2.27	2.88
ABG06A45M150	15.0	0.065	12	2.11	2.58
ABG06A45M180	18.0	0.078	10	1.91	2.27
ABG06A45M220	22.0	0.110	10	1.85	2.11
ABG06A45M270	27.0	0.098	9.2	1.70	1.96
ABG06A45M300	30.0	0.127	7.8	1.55	1.75
ABG06A45M330	33.0	0.137	7.8	1.49	1.70
ABG06A45M360	36.0	0.166	7.8	1.44	1.67
ABG06A45M390	39.0	0.173	7.8	1.29	1.55
ABG06A45M430	43.0	0.193	7.7	1.24	1.68
ABG06A45M470	47.0	0.193	6.4	1.24	1.44
ABG06A45M510	51.0	0.199	6.4	1.18	1.39
ABG06A45M560	56.0	0.25	6.4	1.13	1.34
ABG06A45M620	62.0	0.226	6.4	1.13	1.29
ABG06A45M680	68.0	0.278	6.4	1.03	1.24
ABG06A45M750	75.0	0.293	5	0.98	1.18
ABG06A45M820	82.0	0.328	4.9	0.93	1.08
ABG06A45M910	91.0	0.345	4.9	0.88	1.03
ABG06A45M101	100.0	0.416	4.2	0.82	0.98
ABG06A45M121	120.0	0.466	4.2	0.79	0.88
ABG06A45M151	150.0	0.559	4.2	0.72	0.82
ABG06A45M221	220.0	0.803	3.5	0.61	0.72
ABG06A45M331	330.0	1.270	2.8	0.59	0.59
ABG06A45M471	470.0	2.600	2.1	0.20	0.20
ABG06A45M681	680.0	2.500	1.7	0.33	0.42
ABG06A55M3R3	3.3	0.019	32	3.99	6.07
ABG06A55M4R7	4.7	0.024	24	3.63	4.95
ABG06A55M6R8	6.8	0.026	20	3.53	3.94
ABG06A55M8R2	8.2	0.037	21	2.93	3.93
ABG06A55M100	10.0	0.041	15	2.73	3.34
ABG06A55M150	15.0	0.056	12	2.37	2.56
ABG06A55M220	22.0	0.076	10	2.03	2.27
ABG06A55M330	33.0	0.130	7.8	1.56	1.66
ABG06A55M470	47.0	0.193	6.4	1.26	1.62
ABG06A55M680	68.0	0.271	6.4	1.02	1.26
ABG06A55M101	100.0	0.333	4.2	0.96	1.06
ABG06A55M151	150.0	0.527	4.2	0.76	0.92
ABG06A55M221	220.0	0.796	3.5	0.61	0.71
ABG06A55M331	330.0	1.232	2.8	0.50	0.57
ABG08A40NR82	0.82	0.007	94	6.49	14.21

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG08A40M1R0	1.0	0.007	89	6.49	10.15
ABG08A40M1R2	1.2	0.010	59	5.65	10.0
ABG08A40M1R5	1.5	0.010	67	5.82	8.39
ABG08A40M2R0	2.0	0.011	43	5.30	9.53
ABG08A40M2R2	2.2	0.011	41	5.30	7.31
ABG08A40M3R0	3.0	0.013	32	4.84	6.28
ABG08A40M3R3	3.3	0.016	27	4.53	6.70
ABG08A40M3R6	3.6	0.016	30	4.48	7.75
ABG08A40M3R9	3.9	0.016	26	4.48	5.92
ABG08A40M4R7	4.7	0.018	24	4.22	6.08
ABG08A40M5R1	5.1	0.018	22	4.17	4.84
ABG08A40M5R6	5.6	0.020	24	3.97	6.18
ABG08A40M6R2	6.2	0.020	20	3.97	4.58
ABG08A40M6R8	6.8	0.023	20	3.71	4.69
ABG08A40M8R2	8.2	0.024	17	3.55	4.33
ABG08A40M100	10.0	0.028	15	3.30	3.71
ABG08A40M120	12.0	0.041	13	2.80	3.50
ABG08A40M150	15.0	0.045	12	2.68	3.04
ABG08A40M180	18.0	0.050	11	2.47	2.78
ABG08A40M220	22.0	0.066	9.5	2.16	2.47
ABG08A40M270	27.0	0.075	9.2	2.06	2.21
ABG08A40M330	33.0	0.097	7.8	1.85	2.11
ABG08A40M360	36.0	0.098	7.8	1.80	2.06
ABG08A40M390	39.0	0.103	7.8	1.75	2.01
ABG08A40M430	43.0	0.108	7.8	1.70	1.96
ABG08A40M470	47.0	0.130	6.4	1.60	1.80
ABG08A40M510	51.0	0.136	6.4	1.55	1.75
ABG08A40M560	56.0	0.148	6.4	1.49	1.60
ABG08A40M620	62.0	0.175	6.4	1.34	1.55
ABG08A40M680	68.0	0.188	4.9	1.29	1.49
ABG08A40M750	75.0	0.203	4.9	1.24	1.39
ABG08A40M820	82.0	0.225	5.9	1.18	1.34
ABG08A40M910	91.0	0.261	4.9	1.08	1.24
ABG08A40M101	100.0	0.279	4.2	1.03	1.18
ABG08A40M121	120.0	0.321	3.5	0.98	1.08
ABG08A40M151	150.0	0.410	3.5	0.88	1.13
ABG08A40M181	180.0	0.520	3.5	0.83	0.95
ABG08A40M221	220.0	0.576	3.5	0.82	0.88
ABG08A40M331	330.0	0.856	2.8	0.64	0.70
ABG08A40M471	470.0	1.500	2.1	0.54	0.60
ABG08A40M561	560.0	2.000	1.6	0.30	0.30

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG08A40M681	680.0	2.200	1.2	0.25	0.25
ABG08A40M821	820.0	3.000	0.8	0.20	0.20
ABG08A40M102	1000.0	4.000	0.5	0.15	0.15
ABG08A50M1R0	1.0	0.008	89	6.36	9.90
ABG08A50M1R5	1.5	0.010	67	5.71	8.19
ABG08A50M2R2	2.2	0.012	41	5.20	7.18
ABG08A50M3R3	3.3	0.017	27	4.45	6.56
ABG08A50M4R7	4.7	0.019	24	4.15	5.96
ABG08A50M6R8	6.8	0.024	20	3.64	5.56
ABG08A50M8R2	8.2	0.027	19.4	3.44	5.06
ABG08A50M100	10.0	0.029	15	3.23	4.95
ABG08A50M150	15.0	0.046	12	2.57	3.99
ABG08A50M220	22.0	0.066	9.5	2.27	3.28
ABG08A50M330	33.0	0.092	7.8	1.82	2.73
ABG08A50M470	47.0	0.132	6.4	1.52	2.32
ABG08A50M680	68.0	0.187	4.9	1.26	1.77
ABG08A50M101	100.0	0.241	4.2	1.12	1.52
ABG08A50M151	150.0	0.322	3.5	0.96	1.12
ABG08A50M221	220.0	0.566	3.5	0.71	0.86
ABG08A50M331	330.0	0.835	2.8	0.60	0.69
ABG08A50M471	470.0	1.184	1.9	0.5	0.7
ABG08A50M102	1000.0	2.040	1.5	0.34	0.33
ABG08A50M103	10000.0	18.43	0.35	0.11	0.09
ABG08A60K681	680.0	1.67	1.26	0.46	0.72
ABG08A65MR68	0.68	0.006	100	7.65	24.5
ABG08A65M1R0	1.0	0.008	96	7.13	20.3
ABG08A65M2R2	2.2	0.012	45	4.56	12.2
ABG08A65M3R3	3.3	0.013	27	5.25	9.78
ABG08A65M4R7	4.7	0.016	18	4.84	8.75
ABG08A65M5R6	5.6	0.020	17	4.63	8.24
ABG08A65M6R8	6.8	0.020	16	4.63	7.72
ABG08A65M8R2	8.2	0.023	15	4.32	7.21
ABG08A65M100	10.0	0.033	13	3.26	8.15
ABG08A65M150	15.0	0.040	10	3.35	5.80
ABG08A65M220	22.0	0.055	8	2.76	4.42
ABG08A65M470	47.0	0.11	7	1.88	3.46
ABG08A65M560	56.0	0.15	6	1.38	3.25
ABG08A65M680	68.0	0.16	5	1.57	2.40
ABG08A65M101	100.0	0.21	3.1	1.37	2.03
ABG08A65M151	150.0	0.33	2.5	0.97	1.63
ABG08A65M221	220.0	0.49	2.0	0.81	1.22

### ABG Series

Part Number	Inductance( $\mu$ H) @100KHz/1V	DC Resistance ( $\Omega$ ) $\pm$ 30%	Self-Resonant Frequency (MHz) Min.	Heat Rating Current I <sub>rms</sub> (A) Max.	Saturation Current I <sub>sat</sub> (A) Max.
ABG08A65M331	330.0	0.64	1.7	0.77	1.03
ABG08A65M431	430.0	0.90	1.5	0.62	0.97
ABG08A65M471	470.0	1.15	1.4	0.56	1.02
ABG08A65M681	680.0	1.48	1.0	0.52	0.87
ABG08A65M102	1000.0	2.15	1.1	0.41	0.66
ABG08A65M152	1500.0	3.34	0.7	0.33	0.55
ABG08A65M222	2200.0	4.60	0.7	0.27	0.46
ABG08A65M332	3300.0	6.70	0.7	0.24	0.36
ABG08A65M472	4700.0	11.1	0.4	0.19	0.30
ABG08A65M682	6800.0	17.1	0.4	0.15	0.27
ABG08A65M103	10000.0	20.5	0.4	0.14	0.21