

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

ABG Series

| Part Number | Inductance(μ H) @100KHz,1V | DC Resistance (Ω) \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 |

ABG Series

| Part Number | Inductance(μ H) @100KHz,1V | DC Resistance (Ω) \pm 30% | Min Self-resonant Frequency(MHz) | Saturation Current Isat (A) | Heat Rating Current Irms (A) |
|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| 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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| Part Number | Inductance(μ H) @100KHz,1V | DC Resistance (Ω) \pm 30% | Min Self-resonant Frequency(MHz) | Saturation Current Isat (A) | Heat Rating Current Irms (A) |
|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| 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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| Part Number | Inductance(μ H) @100KHz,1V | DC Resistance (Ω) \pm 30% | Min Self-resonant Frequency(MHz) | Saturation Current Isat (A) | Heat Rating Current Irms (A) |
|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| 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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| Part Number | Inductance(μ H) @100KHz,1V | DC Resistance (Ω) \pm 30% | Min Self-resonant Frequency(MHz) | Saturation Current Isat (A) | Heat Rating Current Irms (A) |
|--------------|------------------------------------|--|--|-----------------------------------|------------------------------------|
| 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(μ H) @100KHz,1V | DC Resistance (Ω) \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(μ H) @100KHz,1V | DC Resistance (Ω) \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(μ H) @100KHz,1V | DC Resistance (Ω) \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(μ H) @100KHz,1V | DC Resistance (Ω) \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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